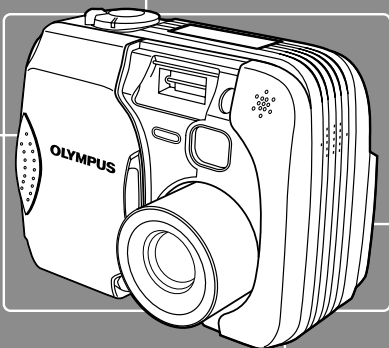


OLYMPUS®

CAMERA

DIGITAL CAMERA

C-40ZOOM
D-40ZOOM



REFERENCE MANUAL

- Thank you for purchasing an Olympus digital camera. Before you start to use your new camera, please read these instructions carefully to enjoy optimum performance and a longer service life. Keep this manual in a safe place for future reference.
- We recommend that you take test shots to get accustomed to your camera before taking important photographs.

For customers in Europe



"CE" mark indicates that this product complies with the European requirements for safety, health, environment and customer protection. "CE" mark cameras are intended for sales in Europe.

For customers in North and South America

For customers in USA

Declaration of Conformity

Model Number : C-40ZOOM/D-40ZOOM

Trade Name : OLYMPUS

Responsible Party : Olympus America Inc.

Address : 2 Corporate Center Drive, Melville, New York
11747-3157 U.S.A.

Telephone Number : 631-844-5000

Tested To Comply With FCC Standards

FOR HOME OR OFFICE USE

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

For customers in Canada

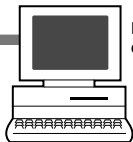
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Trademarks

- IBM is a registered trademark of International Business Machines Corporation.
- Microsoft and Windows are registered trademarks of Microsoft Corporation.
- Macintosh is a trademark of Apple Computer Inc.
- All other company and product names are registered trademarks and/or trademarks of their respective owners.
- The standards for camera file systems referred to in this manual are the "Design Rule for Camera File System/DCF" standards stipulated by the Japan Electronics and Information Technology Industries Association (JEITA).

Major features

Stores your pictures on SmartMedia (card).

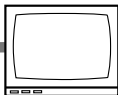


Picture transfer to a computer

ENLARGE SIZE setting

Lets you make clear, good-quality prints in larger sizes such as A3 (11" x 14"), etc.

TV Playback*



Exposure modes to suit various applications.

AUTO : Full-auto

: Portrait

: Landscape-Portrait

: Landscape-Scene

: Night Scene

: Self-Portrait

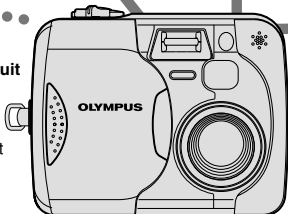
P: Program auto

A: Aperture priority

S: Shutter priority

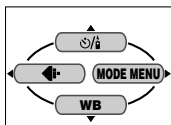
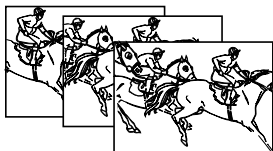
M: Manual mode

: My Mode



Your favorite image can be displayed on the monitor, together with sound, whenever the power is turned on or off.

Take sequential shots!



Easy menu operation

Menus are grouped according to function.



Customize various functions at the position!

Record movies!

In addition to still pictures, you can also record video with sound. Sound is output from the speaker during playback.



*Video signal is either NTSC or PAL compatible depending on the video standard in the intended area of distribution.






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


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Zoom lever (T/W) (P. 82)

Index display/Close-up
playback lever ( / )

(P. 128, 129)

Control panel (P. 13, 14)

Shutter button (P. 68)

Remote control receiver
(P. 94)

Microphone (P. 99, 132)

Flash (P. 87)

Self-timer/
Remote control
lamp
(P. 93, 94)

Speaker
(P. 131)

Lens barrier
(P. 30)


Lens


Battery compartment cover
(P. 25)

Tripod socket (P. 93)

Battery
compartment
lock (P. 25)

- Do not put anything that is sensitive to magnetism (credit cards, floppy disks, etc.) near the camera. Doing so de-magnetize the item and destroy any data it contains.

Macro/Spot button () (P. 91, 92)

Protect button () (P. 133)

Rotation button (P. 134)

Mode dial

()

()

(P. 61 – 64)


Remote control receiver (P. 94)

Flash mode button () (P. 84)

Erase button () (P. 134)

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
Card access lamp (P. 69)

Card cover (P. 29)

OK/Menu button (P. 44)

Manual focus button () (P. 73)

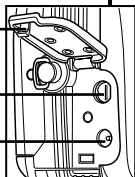
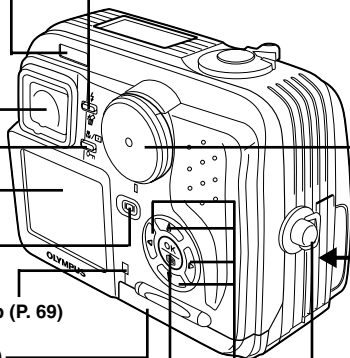
Strap eyelet
(P. 24)

Arrow pad ()
(P. 40)

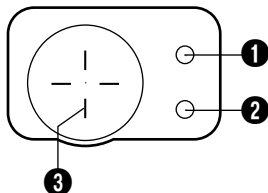
Connector cover (P. 137, 173)

Multi connector (USB, A/V OUT)
(P. 137, 173)

DC-IN jack (P. 183)



Viewfinder indications



1 Orange lamp (P. 75, 80, 87, 88)

- In some situations, this lamp lights up when you press the shutter button halfway. This indicates that the flash will then fire when the picture is taken.
- Lights during movie recording.
- Blinks if the flash is required and the flash is turned off.
- When this lamp blinks just after you change from the flash override mode to another mode or after you shoot with the flash, it means that the flash is recharging. Wait until the lamp stops blinking, then press the shutter button.

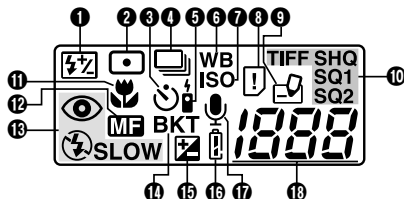
2 Green lamp (P. 68, 75)

- When you press the shutter button down halfway to lock focus and exposure, this lamp lights. If the subject is out of focus, the lamp blinks.
- Blinks if taking next shot is not possible, such as when the camera is processing pictures you have just shot or when there is no space available on the card.
- Blinks when there is a problem with the card.

3 AF target mark (P. 68)

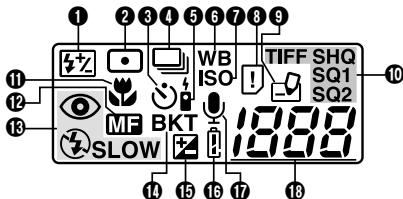
- Place this on the subject.

Control panel indications



- 1 Flash intensity control (P. 89)**
 - Displayed when the amount of the light emitted by the flash is adjusted.
- 2 Spot metering mode (P. 91)**
 - Displayed when the Spot metering mode is set.
- 3 Self-timer (P. 93)**
 - Displayed when the self-timer is activated.
- 4 Sequential shooting (P. 96)**
 - Displayed when the drive mode is set to Sequential shooting or AF Sequential shooting.
- 5 Remote control (P. 94)**
 - Displayed when remote control shooting is activated.
- 6 White balance (P. 112)**
 - Displayed when the White balance is set to any mode except AUTO.
- 7 ISO (P. 110)**
 - Displayed when the ISO is set to any mode except AUTO.
- 8 Card error (P. 32, 193, 194)**
 - When the power is turned on, the camera checks the card. If there is a problem with the card, this indication appears.
- 9 Card writing**
 - Displayed when recorded pictures are being written to a card.
- 10 Record mode (P. 105) (TIFF, SHQ, HQ, SQ1, SQ2)**
 - Displays the record mode. If SHQ or HQ is set to ENLARGE SIZE, the corresponding indication blinks.
- 11 Macro mode (P. 92)**
 - Displayed when the macro mode is engaged.
- 12 Manual Focus (P. 73)**
 - Displayed when locking focus using the Manual focus function.

Control panel indications (Cont.)

**13 Flash mode (P. 84 – 86)**

- Displayed when the flash mode is selected by pressing the ⚡ (flash mode) button.

No indication: Auto-flash

👁️ : Red-eye reduction flash

⚡ : Fill-in flash

⚡ **SLOW**: Slow synchronization flash

🔌 : Off (flash override)

14 Auto-bracket (P. 97)

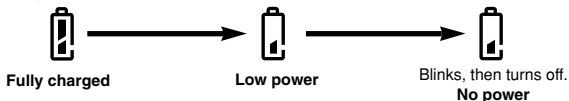
- Displayed when the drive mode is set to the Auto-bracket mode.

15 Exposure compensation (P. 111)

- Displayed when exposure compensation is set to any value except 0.

16 Battery check (P. 26)

- When remaining battery power is low, the battery check indication changes as follows:



- Be aware that the time when the battery check indication appears varies depending on the type of batteries used.

17 Sound record (P. 99, 100)

- Displayed when the sound record mode is set to "ON".

18 Number of storable still pictures (P. 75, 106)

- Displays the number of still pictures you can shoot.

Seconds remaining (📹 mode only) (P. 80, 106)

- Displays available movie recording time.

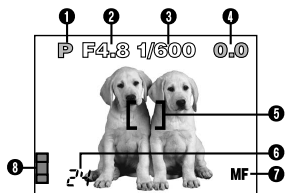
Card error (P. 32)

- Displayed if there is a problem with the card. → See "Error codes" on page 193, 194.

Monitor indications — Shooting information

The indications vary depending on the shooting mode.

The information below is always displayed in the shooting mode.



The information below is displayed for about 3 seconds after operating the buttons/mode dial or closing the menus.



* The illustrations show examples of indications displayed when the mode dial is set to P.

1 Shooting mode (P. 61– 64)

- Displays the shooting mode.

AUTO : Full-auto mode, : Portrait mode, : Landscape-Portrait mode, : Landscape-Scene mode, : Night Scene mode, : Self-Portrait mode, **P**: Program mode, **A**: Aperture priority mode, **S**: Shutter priority mode, **M**: Manual mode, : My Mode, : Movie mode

2 Aperture value (P. 65, 67)

- Displays the current aperture value.

3 Shutter speed (P. 65, 67)

- Displays the current shutter speed.

4 Exposure compensation (P. 111)

- Displays the current exposure (brightness) compensation value.

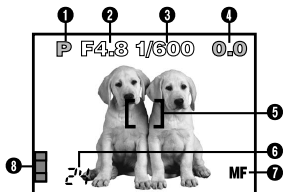
Exposure differential (M mode only) (P. 67)

- Displays the difference between the exposure determined by the currently selected aperture and shutter speed compared to the exposure level considered optimal by the camera.

5 AF target mark (P. 78)

- Place this on the subject.

Monitor indications — Shooting information (Cont.)



6 Number of storable still pictures (P. 75, 106)

- Displays the number of still pictures you can shoot.

Seconds remaining (⌘ mode only) (P. 80, 106)

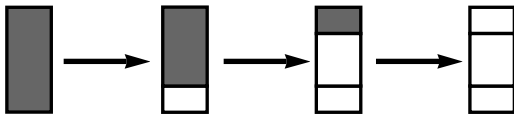
- Displays available movie recording time.

7 Manual Focus (P. 73)

- Displayed when locking focus using the Manual focus function.

8 Memory gauge (P. 79, 81)

- Displays the amount of space used by the pictures stored in the built-in memory. If you take pictures continuously, the indication changes as shown below.



The memory gauge changes depending on the number of storable pictures or seconds remaining.

Monitor indications — Shooting information (Cont.)



9 Drive mode (P. 96)

- Displayed when the drive mode is set on the menus.
- : Single-frame shooting □ : Sequential shooting
- AF □ : AF Sequential shooting BKT : Auto-bracket

10 White balance (P. 112)

- Displayed when WB is set on the menus.
- No indication: AUTO ☀ : Daylight ☁ : Overcast
- ☀ : Tungsten light ☀ : Fluorescent
- ☀ : One touch white balance

11 ISO (P. 110)

- Displays the ISO (AUTO, 100, 200 or 400) selected on the menus.
- When set to AUTO, the ISO changes to 100 when the mode dial is set to A/S/M. When AUTO is selected, the ISO is automatically increased in low-light situations when the flash is not used. This is to prevent blurring from camera movement.

12 Record mode (P. 105) TIFF/SHQ/HQ/SQ1/SQ2

- Displays the record mode selected on the menus.

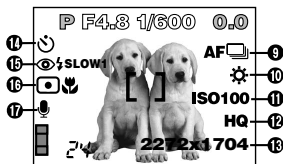
13 Number of pixels (P. 106)

- Displays the number of pixels used for the resolution setting that is currently selected.

14 Self-timer/remote control (P. 93 – 95)

- Displayed when self-timer/remote control shooting is activated.
- ☀ : Self-timer shooting ☀ : Remote control shooting

Monitor indications — Shooting information (Cont.)



15 Flash mode (P. 84 – 86)

- Displayed when the flash mode is selected by pressing the (flash mode) button.

No indication: Auto-flash : Red-eye reduction flash

: Fill-in flash

SLOW1/ SLOW2/ SLOW1: Slow synchronization flash

: Off (flash override)

16 Spot metering/Macro mode (P. 91, 92)

- Displayed when the Spot metering/Macro mode is selected by pressing the (Macro/Spot) button.

No indication: Digital ESP

: Spot metering

: Macro

: Spot metering+Macro

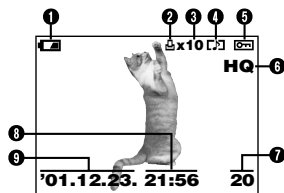
17 Sound record (P. 99, 100)

- Displayed when is set on the menus.

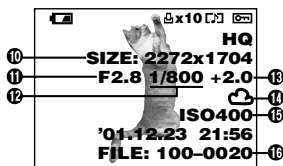
Monitor indications — Playback information

INFO setting on the Menu allows you to select how much information to display (P. 127).

Still picture playback information



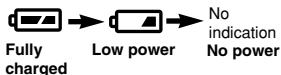
When INFO is set to OFF



When INFO is set to ON

1 Battery check

- The battery check indication changes as follows:



- Be aware that the time when the battery check indication appears varies depending on the type of batteries used.

2 Print reserve (P. 160)

- Displayed when the Print reserve is set.

3 Number of prints (P. 161, 163)

- Displays the number of prints.

4 Sound record

- Displayed when sound is recorded.

5 Protect (P. 133)

- Displayed when the picture is protected.

6 Record mode

7 Frame number

8 Time

9 Date

- The year 2001 is displayed as 01.

10 Number of pixels (resolution setting)

11 Aperture value

12 Shutter speed

13 Exposure compensation

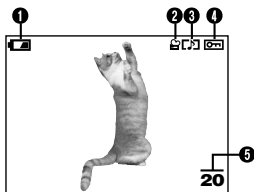
14 White balance

15 ISO

16 File number

Monitor indications — Playback information (Cont.)

Movie playback information



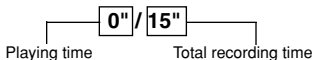
When INFO is set to OFF



When INFO is set to ON

- 1 Battery check**
- 2 Movie mark (P. 119)**
- 3 Sound record**
 - Displayed when sound is recorded.
- 4 Protect (P. 133)**
 - Displayed when the picture is protected.
- 5 Frame number**
- 6 Date**
 - The year 2001 is displayed as 01.

- 7 Record mode**
- 8 Number of pixels**
- 9 File number**
 - During movie playback, the recording time appears as follows:



!Note:

- The indications that appear on a movie picture that has been selected and displayed from the thumbnail display are different from those that appear when the movie picture is displayed using the movie play function (P. 119, 122).

How to use this manual

The instructions in this manual use a series of numbers for each operating procedure and button/dial illustration. Follow these numbers in order when operating the camera.

..... Example 1

If a button is shown in black, press it as part of the step.

Shooting mode setting — Mode dial (Cont.)

Aperture & Shutter speed setting — Manual shooting



1 In the top menu, select MODE MENU → CAMERA → P/A/S/M → M.

2 To set the shutter speed faster, press Δ .

To increase the aperture value (F value), press \triangleleft .



To decrease the aperture value (F value), press \triangleright .

To set the shutter speed slower, press ∇ .

F value: W → f2.8¹, f3.4, f4.0, f4.8, f5.6, f8.0
T → f4.8¹, f5.6, f8.0

Shutter speed: 16 to 1/1000² sec.

¹ Open-aperture (the widest aperture setting) depends on the zoom position.

² Varies between 1/500 to 1/1000 depending on the aperture value and/or zoom position.

■ Exposure differential

- The difference (ranging from -3.0 to +3.0) between the exposure determined by the currently selected aperture and shutter speed compared to the exposure level considered optimal by the camera appears in the upper right-hand corner.
- When the exposure differential is set to less than -3.0 or more than +3.0, the exposure differential appears in red.

Aperture (F value) Shutter speed

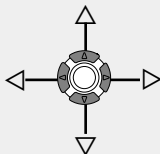


Exposure differential

!Note:

- To avoid camera movement, we recommend use of a tripod for any effect which uses a lower shutter speed.

Δ , ∇ , \triangleleft and \triangleright used in instructions correspond to the buttons on the arrow pad as shown.



How to use this manual (Cont.)

..... Example 2

Before using the following function, set the mode dial to any of the positions shown.

Chapter 8

Beep

You can set the volume of the beep used for button operations or warnings to OFF, LOW or HIGH. The factory default setting is LOW, but you can turn the beep completely off if you don't want it.




In the top menu, select MODE MENU → SETUP → BEEP → OFF, LOW or HIGH.

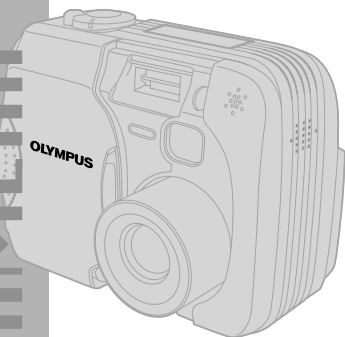
Factory default setting: LOW

Note:

- In the **Auto** mode, this function's setting is the same as that selected in the other shooting modes.

Shows you that the following function is available in the playback mode, and is also available using Quick View, which is activated by pressing  twice quickly in the shooting mode.

How to use the menu is shown here. Set the functions in the menus in the order of these arrows. Before using the menus, read "Using the Menus", Chapter 3 for details.



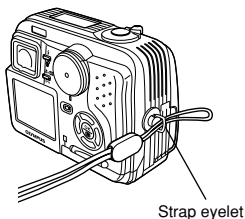
Chapter 1

Getting started

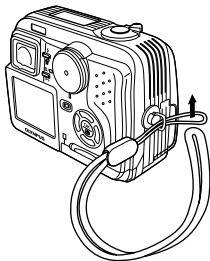
Before using the camera, you should follow the steps outlined in this chapter.

Attaching the strap

- 1 Thread the strap through the strap eyelet.



- 2 Thread the rest of the strap through the loop that has already gone through the eyelet. Make sure the strap is securely fastened.

**Note:**

- Always put the camera in its case (optional) when carrying it.
- Be careful with the strap when you carry the camera, as it can easily catch on stray objects, causing serious damage.
- Attach the strap correctly as shown so that the camera does not fall off. If the strap is attached incorrectly and the camera falls off, Olympus is not responsible for any damages.

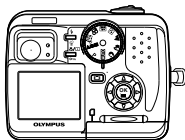
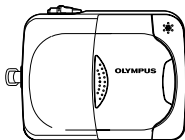
Loading the batteries

This camera uses a CR-V3 lithium battery pack or 2 AA (R6) NiMH batteries, NiCd batteries, alkaline batteries or lithium batteries.

Important:

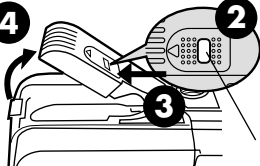
- **CR-V3 lithium battery packs cannot be charged.**
- Do not peel the label on a CR-V3 lithium battery pack. If an insulating sheet covers the terminals, peel it off **ONLY** from the terminals.

1



Make sure the camera is turned off (i.e. the lens barrier is closed and the monitor if turned off).

4



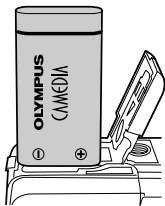
2

While pressing the lock button on the battery compartment cover, slide the cover in the direction of the arrow (<) printed on it.

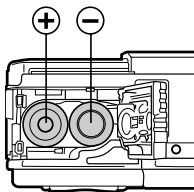
3

Battery compartment lock

5



When using a lithium battery pack

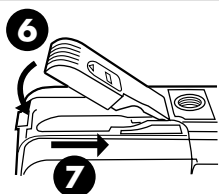


When using AA (R6) batteries

Insert the batteries in the direction shown in the illustration.

Continued on next page

Loading the batteries (Cont.)



Close the battery compartment cover, then press it down and slide it in the opposite direction of the arrow (↵) printed on it.

- When pressing the battery compartment cover shut, be sure to press the center of the cover, as it may be difficult to close properly by pressing the edge.
- Make sure the cover is completely closed.

Battery check

If remaining battery power is low, the battery check indication on the control panel changes as follows while the camera is turned on or while the camera is used.



Lights.

Remaining power level: high



Blinks.

Remaining power level: low. Replace with a new battery.



Turns off after blinking for approx. 12 sec.

Remaining power level: exhausted. Replace with a new battery.

- After taking a picture or when turning on the power with batteries that are running low, the camera may emit several short beeps and the number of storable pictures will blink. If this happens, the picture just taken will not turn out properly. Replace the batteries and take the picture again.

Note:

- If the terminals inside the battery compartment are dirty, it will noticeably shorten the life of the batteries. Do not touch the inside of the battery compartment.
- If the camera is left for 2 – 3 days with the batteries removed, all the internal settings will revert to the default settings.
- If the camera is in operation for a long time, its internal temperature rises. When the temperature gets too high, the camera will stop working. If this happens, remove the battery and wait until the camera has cooled down before trying to use it again.
- When the camera is in operation, its external temperature rises. This is not a malfunction.

Selecting batteries

■ Lithium battery pack

Since the CR-V3 lithium battery pack has a long service life, it is convenient when traveling. The CR-V3 lithium battery pack cannot be charged.

■ Rechargeable batteries

Olympus NiMH batteries are rechargeable and economical. The low-temperature resistance makes them a good choice for cold areas.

■ AA (R6) alkaline batteries

When you need batteries in a hurry, you can use AA (R6) alkaline batteries, which are easy to get anywhere. However, the number of pictures that you can store in the camera may vary considerably with AA batteries, depending on the battery manufacturer, camera shooting conditions, etc. Use this type of battery only when you have no other choices available. Turn off the monitor whenever possible to save power.

!Note:

- Manganese (zinc-carbon) batteries cannot be used.
- The lives of battery packs may vary according to the type of battery, manufacturer, camera shooting conditions, etc.
- When connecting the camera to a PC, it is recommended that you use the optional AC adapter. (P. 183)
- Power is consumed continuously during the conditions below. This could reduce the number of pictures that can be taken.
 - When the monitor is turned on.
 - Repeated auto-focus by depressing the shutter button halfway.
 - Repeated power zoom adjustments.
 - When the Fulltime AF mode is turned on.
 - When the monitor is in the playback mode for an extended period of time.
 - When communicating with a PC.

Card basics

This camera uses SmartMedia to record pictures. This reference manual uses the term “card” when referring to SmartMedia.

What is SmartMedia?

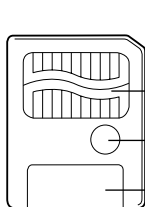
Images recorded and stored on SmartMedia can easily be deleted, overwritten, and/or edited on a PC.

Compatible SmartMedia cards

- Provided 16 MB standard card
- Optional Olympus CAMEDIA-brand cards (4 MB – 128 MB; all cards except 2MB)
- Commercially-available 3 V (3.3 V) cards (4 MB – 128 MB; all cards except 2MB)

Note:

- 2 MB cards cannot be used.
- This camera may not recognize a non-Olympus card (such as 3 V (3.3 V)) or a card that was formatted on another device (such as PC, etc.). Before use, be sure to format the card on this camera (P. 32, 136).
- Market-available 5 V cards cannot be used.



1 Contact area

Comes into contact with the camera's signal read contact.

2 Write-protect area

Attach the provided write-protect seal when you want to protect your data from accidental erasure or overwriting.

3 Index area

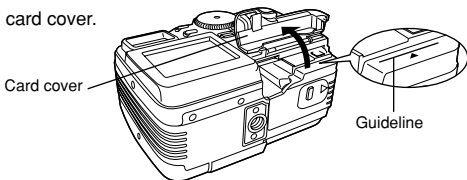
Use the provided index label to indicate the card's contents.

Note:

- Operating temperature: 0°C to 55°C (32°F to 131°F); Storing temperature: –20°C to 65°C (–4°F to 149°F); Humidity: up to 95 %
- Put the card into its anti-electrostatic case for storage or transportation.
- Do not bend, drop, or apply any physical shock to the card.
- Read the provided SmartMedia instruction manual carefully.
- Do not touch the contact area of the card.

Inserting/ejecting the card

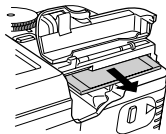
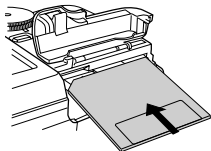
- 1 Make sure the camera is turned off (i.e. the lens barrier is closed and the monitor if turned off).
- 2 Open the card cover.



3 Inserting the card

Insert the card all the way with the contact area facing towards the lens side so that the label's edge is aligned with the guideline (◁) printed on the camera.

- Insert the card while keeping it straight. Be sure not to insert it at an angle.
- Note the orientation of the card. If it is inserted incorrectly, it may become jammed.
- If the card is not inserted fully, the card cover will not close. Closing the card cover forcibly will damage the card cover.



3 Ejecting the card

Grasp the card and pull in straight out.

- 4 Close the cover tightly.

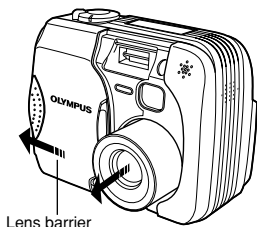
Note:

- NEVER open the card cover, eject the card, remove the batteries, or disconnect the optional AC adapter while the camera is in use or the camera is communicating with a computer. **Doing so could destroy all data on the card.**
- Destroyed data cannot be restored.




Power on/off

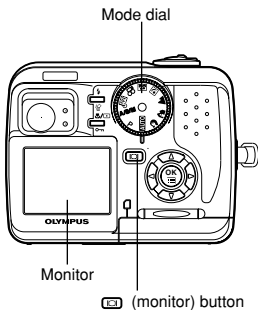
■ Shooting mode

- 1** Set the mode dial to the desired position.
- 2** Open the lens barrier.
 - The camera turns on and the lens extends.
 - Startup image is displayed on the monitor.
 - If the lens does not extend, the lens barrier is not fully open.
- 3** Partly close the lens barrier to turn the camera off (about halfway across the lens). Wait until the lens is fully retracted.
 - Do not push the lens barrier against the lens.
 - Shutdown image is displayed on the monitor.
- 4** Close the lens barrier all the way.
 - The power turns off.



■ Playback mode

- 1** Press the  (monitor) button.
 - The monitor turns on and startup image is displayed.
 - If the lens barrier is open, press  twice quickly to enter the playback mode.
- 2** Press the  button again.
 - Shutdown image is displayed on the monitor, then the monitor turns off.





TIPS

- **If the camera stops working**

→ To save battery power, the camera automatically enters the Sleep mode after about 3 minutes of non-operation. The camera activates again as soon as you touch the zoom lever or mode dial, etc. Sleep time interval can be set in the P, A/S/M and modes (P. 153).

Note:

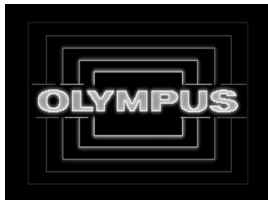
- Leaving the camera switched on for an extended period of time may cause the images to heat up and increase the chances of noise in the photographs.
- When there is insufficient space remaining on the card, the camera beeps and CARD FULL appears on the monitor. If this happens, replace the card with a new/storable card or erase unwanted pictures in the existing card to make space.
- The number of storable pictures may not be reduced every time a picture is taken, or increased when a picture is erased. The amount of data varies depending on the subject.
- Do not put anything that is sensitive to magnetism (credit cards, floppy disks, etc.) near the camera. Doing so de-magnetize the item and destroy any data it contains.

Monitor appearance and sound

When the power is turned on/off, a startup/shutdown image is displayed on the monitor and startup/shutdown sound is output.

You can select your favorite image for this function (P. 151) and adjust the sound volume (P. 131).

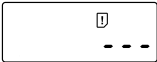
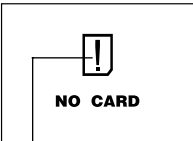
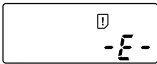
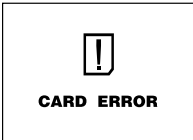
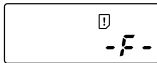
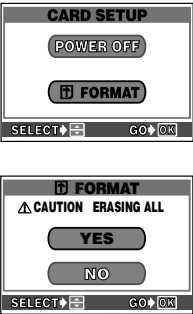
Startup/Shutdown image (factory default setting)



Power on/off (Cont.)

Card check

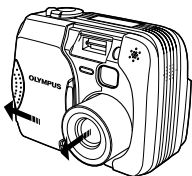
When the power is turned on, the camera checks the card automatically.


| Control panel | Monitor | TIPS |
|--|--|--|
|  |  Card error mark | There is no card in the camera or the card is not locked into place. → Insert a card. If a card is already inserted, remove it and insert it again. |
|  |  | There is a problem with the card. → Use a new card. |
|  |  | The card cannot record, play back or erase pictures. → Format the card. ① Press ∇ to select \boxed{F} FORMAT , then press OK . • The \boxed{F} FORMAT screen appears. ② Press Δ to select FORMAT , then press OK to start formatting. • When formatting is complete, the monitor will display the subject you are shooting. |

Date/time setting

It is possible to set the date/time of the built-in clock. Since the date/time is saved with recorded pictures, be sure to set it correctly.


- 1** Open the lens barrier to turn on the camera and enter the shooting mode.



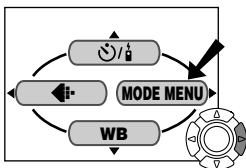
- 2** Press  to display Menu (P. 44).

- The monitor turns on automatically.



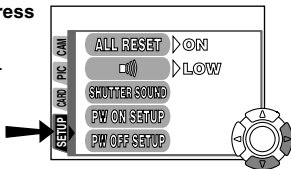
- 3** Press  on the arrow pad to select **MODE MENU**.

- In this step and the following steps, the screens show examples of the menus displayed in the P mode.



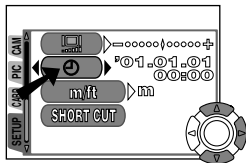
- 4** Press  to select **SETUP**, then press .

- The items in the **SETUP** menu appear.




- 5** Press   to select , then press .

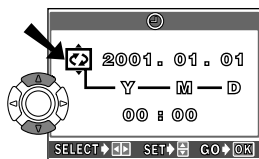
- The  screen appears.



Date/time setting (Cont.)

- 6** When  is selected in green on the screen, press Δ ∇ to select the date format.

- Select any one of the following formats:
DMY (Day/Month/Year)
MDY (Month/Day/Year)
YMD (Year/Month/Day)
- This step and the following steps show the procedure used when the date and time settings are set to Y-M-D.



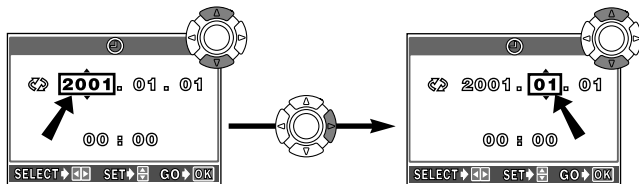
 screen

- 7** Press \triangleright to move to the year (Y) setting.





- 8** Press Δ ∇ to set the year. When the year is set, press \triangleright to move to the month (M) setting.

- Repeat this procedure until the date and time are completely set.
- To move back to the previous setting, press \triangleleft .



Date/time setting (Cont.)

9 Press .

- The camera returns to the menu screen.
- If  is pressed again, the menu will disappear.
- For a more accurate setting, don't press  until the clock hits 00 seconds. The clock starts when you press the button.



10 To turn off the camera, close the lens barrier.

- The lens is retracted.

Note:

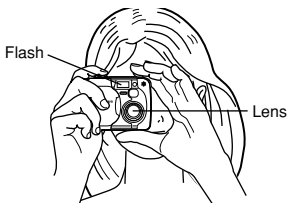
- The current settings stay the same even when the power is turned off, unless they are readjusted.
- The date setting will be canceled if the camera is left with no batteries for 2 – 3 days. If this happens, set the date again.

Holding the camera

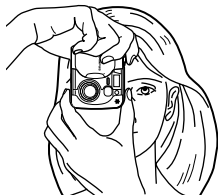
Hold the camera firmly with both hands while keeping your elbows at your sides to prevent the camera from moving. Keep your fingers and the strap away from the lens and flash.

Correct

Horizontal grip

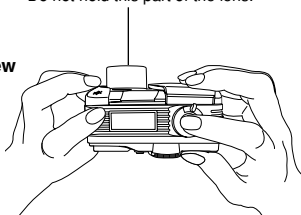


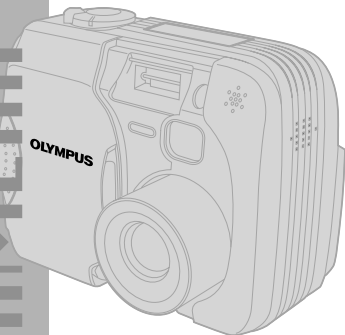
Vertical grip



Do not hold this part of the lens.

Top view





Chapter 2

Quick-start guide

Explains the simplest shooting and playback methods. This Quick-start guide has been designed for those who want to become familiar with the camera in a very short time.

Before using the camera, be sure to follow the steps explained in chapter 1.

Taking still pictures **AUTO**

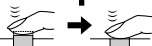
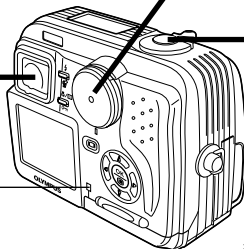
- 1** Set the mode dial to **AUTO** and open the lens barrier.



- 2** Point the camera towards a subject while viewing through the viewfinder.



Card access lamp



- 3** To focus on the subject, press the shutter button halfway, slowly and gently.

- When the subject is in focus, the green lamp lights up.



Green lamp

- 4** To start shooting, press the shutter button gently all the way (fully).

- The green lamp and card access lamp blink and the camera begins storing pictures on the card.

Note:


- NEVER open the card cover, eject the card, remove the batteries, or pull the plug of an optional AC adapter when the card access lamp is blinking. Doing so could destroy stored pictures and prevent storage of pictures you have just taken.



Viewfinder



Green lamp

- 1 Set the mode dial to  and open the lens barrier.**

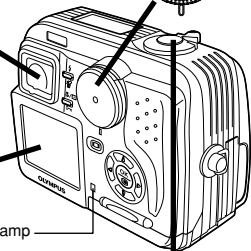
- The monitor turns on.



- 2 Point the camera towards the subject and compose the picture while viewing through the monitor.**



Card access lamp



- 3 Press the shutter button halfway.**

- The green lamp on the viewfinder lights up.

- 4 Press the shutter button all the way to start recording.**

- The orange lamp lights up during movie recording.
- During movie recording, correct focus is maintained (P. 72).
- When the sound recording mode is set to ON, sound can be recorded with movies (P. 100).

- 5 Press the shutter button all the way again to stop recording.**

- The card access lamp blinks and the camera starts writing the movie to the card.
- If you use all the displayed seconds remaining, shooting finishes automatically and the camera starts writing the movie to the card (P. 81).



AF target mark



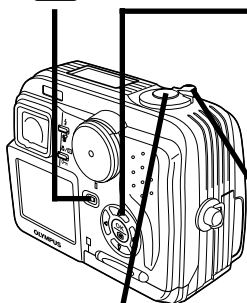
Seconds remaining

Viewing still pictures — Using Quick View




1 Press the (monitor) button twice quickly.

- The monitor turns on and the recorded picture appears.



2 Display the desired pictures using the arrow pad.

- Pictures indicated by  are movie frames. → See “Playing back movies” on page 41.

Jumps to the picture 10 frames behind.



Displays the next picture.

Jumps to the picture 10 frames ahead.

Displays the previous picture.

Turning the zoom lever towards

T: Enlarges the picture (P. 128).

W: Displays multiple pictures at the same time (P. 129).



3 To return to the shooting mode, press the shutter button halfway.

- The monitor turns off. Shoot pictures using the viewfinder.





Note:

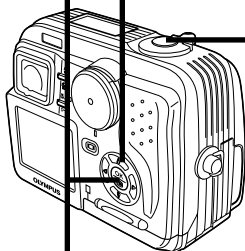
- If the camera is not operated for over 3 minutes when the monitor is on, the monitor turns off automatically. To turn it on again, press any button. The camera returns to the shooting mode.

Playing back movies — Using Quick View







- 1** Display the movie frame (picture with ) you want to play back.
→ See steps 1 and 2 on page 40.

- 2** Press  to display menu.

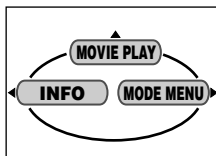




- 5** Press  to start Playback.

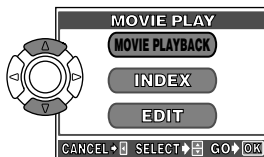
- When playback finishes, the screen returns to the beginning of the movie.
- If  is pressed again when the movie playback is finished, the MOVIE PLAYBACK screen appears. To exit the movie playback mode, press  to select EXIT, then press .

- 3** Press  on the arrow pad to select MOVIE PLAY.

- The card access lamp blinks while movie data is accessed.



- 4** Press  to select MOVIE PLAYBACK on the MOVIE PLAY screen. To exit this screen, press .



- 6** To return to the shooting mode, press the shutter button halfway.



Erasing pictures

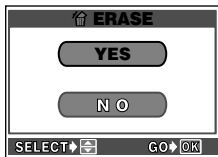


- 1** Display the picture you want to erase. → See steps 1 and 2 on page 40.

- 2** Press the (erase) button.

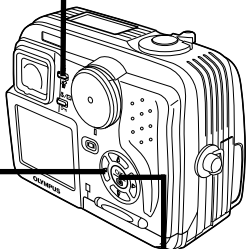


3



When the ERASE screen appears, press Δ to select YES.

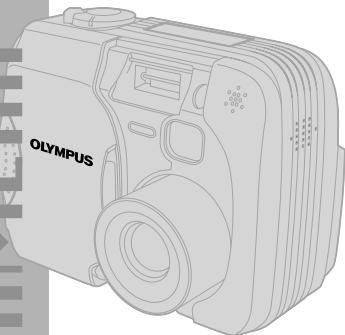
- To cancel erasure, press ∇ on the arrow pad to select NO, and press or the button.



- 4** Press to erase the picture.

Note: _____

- Make sure the card is not write-protected. If it is, remove the write-protect seal.






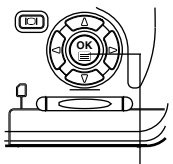
Chapter 3

Using the Menus

This chapter explains what the camera's menus are and how they work. Some functions on this camera are only available by using the menus.

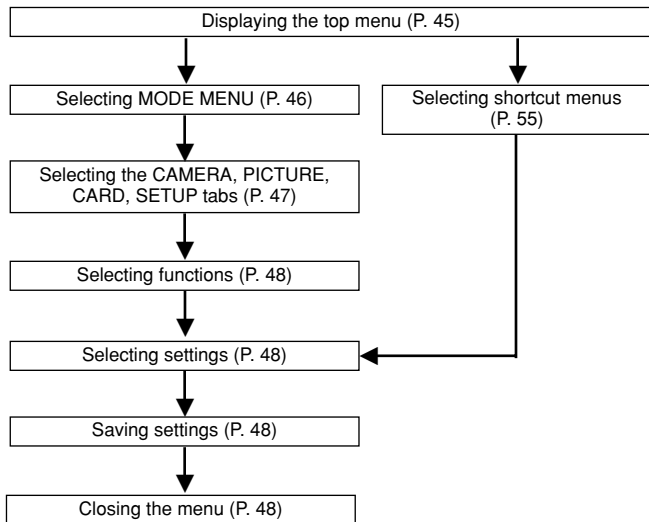
What Are the Menus?

When you turn on the camera and press the  (OK/Menu) button, what appears on the monitor is generally called "the menu". The menu can be operated using  and . Many of the functions on this camera are accessed using the menu. Familiarizing yourself with these functions will help you take better photographs. See how menu operations flow together on the chart below.



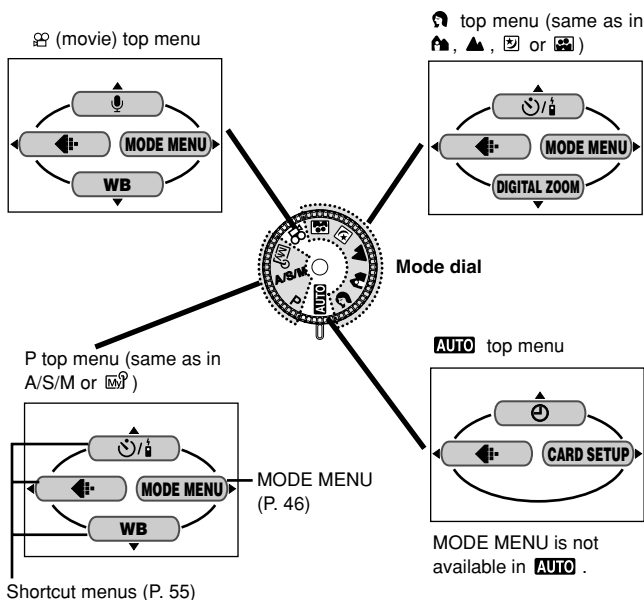
 button

Menu Basics

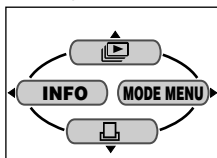


Top Menu

When displaying menus, the first screen that appears on the monitor is called the top menu. The contents of this menu change depending on the mode (see the diagram below). On the top menu, two types of menus are available: **MODE MENU (P. 46)** and the other menus (shortcut menus → P. 55).



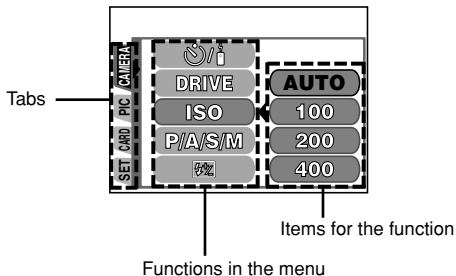
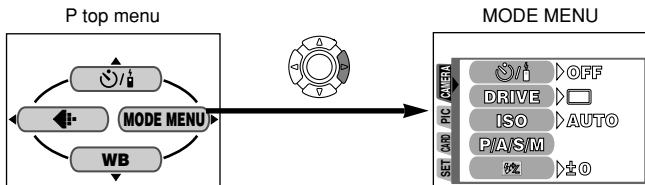
Playback top menu
(for still pictures)



When **OH** is pressed during playback, the top playback menu appears. On the top menu for movies, **OH** is replaced with **MOVIE PLAY** and **OH** is not available.

MODE MENU

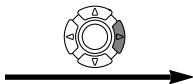
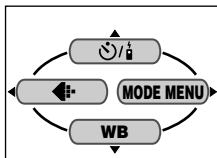
To enter MODE MENU, press \triangleright . Functions available in the MODE MENU depend on the mode. MODE MENU functions are divided into 4 tabs (CAMERA, PICTURE, CARD, SETUP). In the P , A , S , M , B or F mode, the PICTURE tab is not available. See "Using Tabs" on the next page.



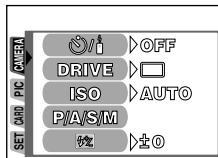
Using Tabs

When MODE MENU is selected, a screen appears with 4 tabs on the left. Use Δ ∇ to select a tab.

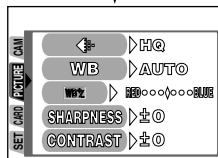
P top menu



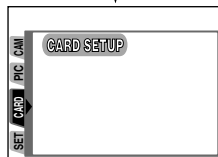
CAMERA tab



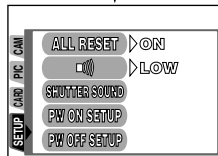
PICTURE tab



CARD tab



SETUP tab



CAM: CAMERA

Functions for shooting: selecting drive modes, using digital zoom, etc.

PIC: PICTURE

Functions for adjusting images: selecting record modes, adjusting white balance, etc.

In the , , , , or mode, the PICTURE tab is not available.

CARD: CARD

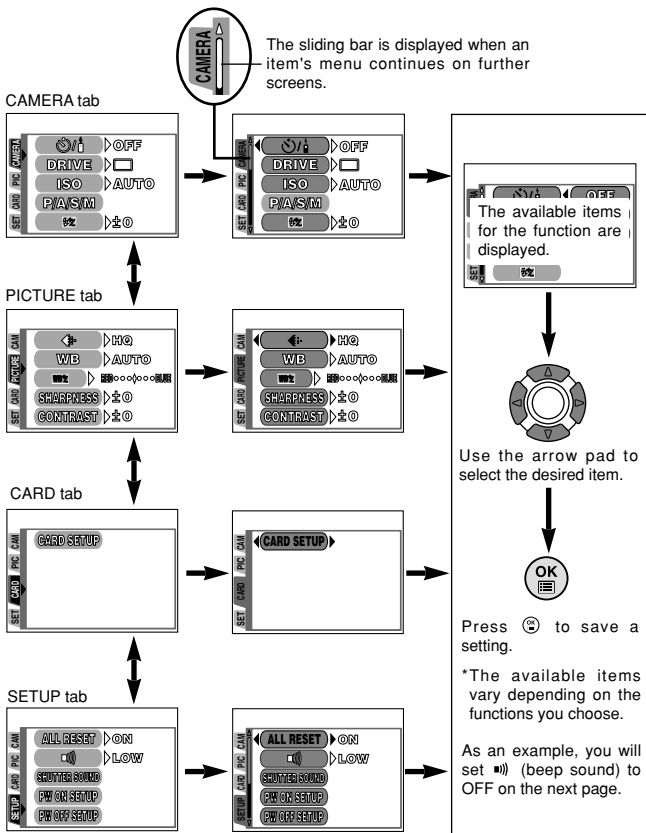
Card functions, such as formatting.

SET: SETUP

Functions for changing camera settings: date and time, shortcut settings, etc.

Selecting, Setting, and Saving Functions

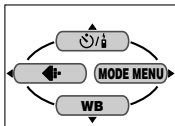
After choosing a tab, you can select and set its functions. Pressing \triangleright on a tab displays the functions contained in it. Select the desired function using $\triangle \nabla$ and press \triangleright .



Example of How to Set a Function

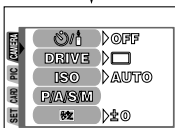
Follow the steps below to set one function in MODE MENU. In this example, you will set (beep sound) to OFF when the mode dial is set to P.

- 1** Set the mode dial to P and press to display the top menu.



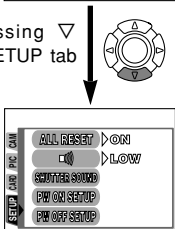
- 2** Press to enter MODE MENU.

A screen is displayed with tabs on the left.



- 3** Keep pressing until the SETUP tab is selected.

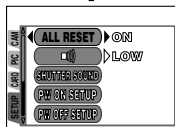
The mark moves to the selected tab and the selection becomes highlighted.



- 4** Press to enter SETUP.

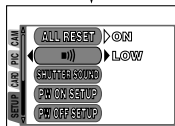


- 5** Press to select .

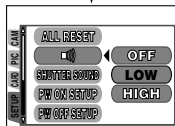


- 6** Press to display OFF/LOW/HIGH.

The factory default setting is LOW.



- 7** Press to select OFF.



- 8** Press to save the setting. To go back to shooting, press .



Note: Setting in one shooting mode will be the same in other shooting modes. Menu functions cannot be set separately for each shooting mode.

MODE MENU Functions (Shooting)

CAMERA



P. 93 – 95

Sets self-timer shooting or remote control shooting.



P. 96, 97

Changes the drive modes, or sets autobracketing.



P. 110

Selects ISO sensitivity (based on normal camera film) from AUTO/100/200/400.



P. 65 – 68

When the mode dial is set to A/S/M: Exposure mode can be selected from A (Aperture priority auto), S (Shutter priority auto), or M (Manual mode). When the mode dial is set to : Exposure mode can be selected from P, A, S or M.



P. 89

Adjusts the flash intensity for different shooting conditions.



P. 86

Adjusts the flash for slow shutter speeds.



P. 117

Reduces the electrical noise on images during long exposures.



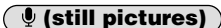
P. 82

The maximum optical zoom (2.8x) can be extended even more by the 2.5X digital zoom, making possible up to approx. 7x zoom.



P. 72

Keeps the image in focus at all times without having to press the shutter button halfway.



P. 99

Allows approx. 4 seconds of sound recording to be attached to a picture.

MODE MENU Functions (Shooting) (Cont.)

CAMERA

PANORAMA  P. 101

Allows panorama pictures to be taken with Olympus CAMEDIA-brand SmartMedia cards. To connect pictures into a single panoramic image, CAMEDIA Master software is required.

FUNCTION  P. 103

Lets you shoot pictures in black & white or sepia tone.

 **P. 105 – 109**

Sets the record mode resolution.

WB  P. 112, 113

Sets the appropriate white balance according to the light source.

 **P. 114**

Lets you make fine changes to the white balance manually.

SHARPNESS  P. 115

Adjusts the sharpness of images.

CONTRAST  P. 116

Adjusts the contrast of images.

SATURATION  P. 116

Adjusts the level of color depth without changing tint.

PICTURE

CARD

CARD SETUP  P. 136

Formats cards.

MODE MENU Functions (Shooting) (Cont.)

ALL RESET  P. 146

Selects whether to keep the current camera settings when you turn off the power.

 **SLEEP**  P. 148

Sets the beep sound (used for warnings, etc.) to OFF/LOW/HIGH.

SHUTTER SOUND  P. 149

Sets the type of shutter sound effect and the volume.

PW ON SETUP  P. 150

Sets the picture displayed on the monitor and the sound output when the power is turned on.


PW OFF SETUP  P. 150

Sets the picture displayed on the monitor and the sound output when the power is turned off.

REC VIEW  P. 152

Selects whether to display images on the monitor while saving them to a card.

MY MODE SETUP  P. 140

Customizes settings, which are activated in the  mode.

SLEEP  P. 153

Sets the sleep timer.

FILE NAME  P. 154

Chooses how to name files/folders of images to be saved.

PIXEL MAPPING  P. 156

Checks the CCD and image processing circuit for errors.

MODE MENU Functions (Shooting) (Cont.)

SETUP



P. 79

Adjusts the brightness of the monitor.



P. 33 – 35

Sets the date and time.



P. 157

Sets the measurement units (m/ft) used during manual focus.

SHORT CUT

P. 143 – 145

Lets you assign frequently-used functions as shortcut menus on the top menu.

MODE MENU Functions (Playback)

PLAY



P. 132

Adds sound to recorded still pictures.

CARD

CARD SETUP

P. 136

Formats cards (FORMAT), or erases all images in the card (ALL ERASE).

MODE MENU Functions (Playback) (Cont.)

ALL RESET

 P. 146

Selects whether to keep the current camera settings when you turn off the power.

VOLUME

 P. 131

Sets playback sound volume, as well as the volume of the sound selected in PW ON SETUP and PW OFF SETUP.



 P. 148

Sets the beep sound (used for warnings. etc.) to OFF/LOW/HIGH.

PW ON SETUP

 P. 150

Sets the picture displayed on the monitor and the sound output when the power is turned on.

PW OFF SETUP

 P. 150

Sets the picture displayed on the monitor and the sound output when the power is turned off.

SCREEN SETUP

 P. 151

Registers a stored picture so that you can select it in PW ON SETUP and/or PW OFF SETUP.



 P. 79

Adjusts the brightness of the monitor.





 P. 33 – 35

Sets the date and time.

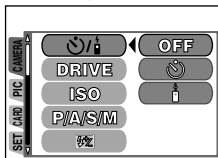


 P. 130

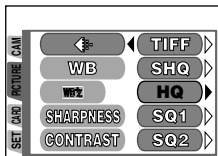
Selects the number of frames in the index display.

Shortcut menus are the menus that appear in the top menu together with the MODE MENU (the top menu is the first menu that appears when  is pressed). Putting them on the top menu allows instant access to them. Different shortcut menus are included in MODE MENU depending on the mode. The MODE MENU is not available in the top **AUTO** menu. In this case, you have to use the shortcut menus. The shortcut menus can be replaced only when the mode dial is set to **P**, **A/S/M** or . See "Shortcut" (P. 143) for more details.

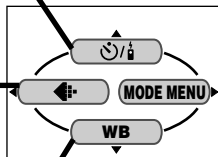
 setting screen



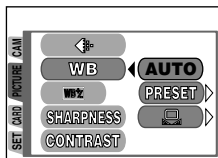
Record mode setting screen



P top menu



White balance setting screen



Modes & Shortcut Menus

The diagram below describes the shortcut menus that are available with each mode. The shortcut menus are the menus other than MODE MENU on the top menu.

Date/time setting

Sets the date/time.

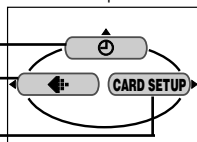
Record mode

Sets the record mode.

Card format

Formats the card.

AUTO top menu



Self-timer/remote control

Selects self-timer shooting or remote control shooting.

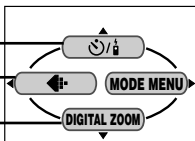
Record mode

Sets the record mode.

Digital zoom

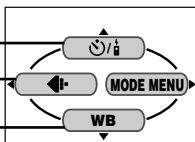
The optical zoom can be extended to a maximum of approx. 7x.

P top menu (same as in **A**, **S**, **M**, or **MOVIE**)



P top menu (same as in **A/S/M**, **MOVIE**)

The **P**, **A/S/M**, and **MOVIE** shortcut menus can be replaced with other functions by using "Shortcut" (P. 143). The menus themselves are explained in "MODE MENU functions" (P. 50–54).



Sound recording (movies)

Records sound while shooting movies.

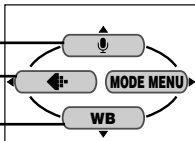
Record mode

Sets the record mode.

White balance

Sets the appropriate white balance according to the light source.

MOVIE (movie) top menu



Slide-show

Runs through all saved pictures one after another.

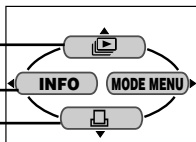
Information display

Changes the amount of shooting information displayed on the monitor.

Print reserve

Stores printing information required for DPOF printers.

Playback top menu
(for still pictures)



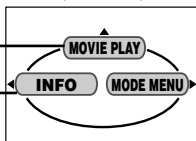
Movie playback

Plays back movies. You can also edit the movies or make indexes of still-shots from them.

















Information display

Changes the amount of shooting information displayed on the monitor.












Playback top menu
(for movies)



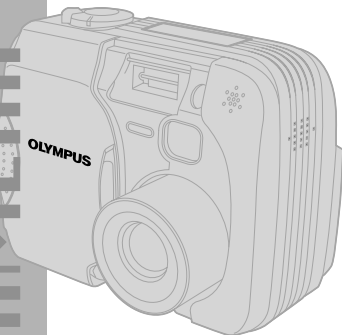
Modes & Factory Default Settings

| Mode Function | AUTO |  | P A/S/M  |  | Play-back |
|--|------|--|---|---|-----------|
|  | — | OFF | | | — |
| DRIVE | — |  (single frame shooting) When BKT is selected: ± 1.0/x3 | | — | |
| ISO | — | P  :AUTO A/S/M:100 | | AUTO | — |
| P/A/S/M | — | P: — A/S/M: A (selected from A, S or M)  : P (selected from P, A, S or M) | | — | |
|  | — | ± 0 | | — | |
|  SLOW | — |  SLOW1 | | — | |
| NOISE REDUCTION | — | Only in  : ON | P: — Only in M: OFF  : OFF | — | |
| DIGITAL ZOOM | — | OFF | | | — |
| FULLTIME AF | — | OFF | | ON | — |
|  (still pictures) | — | OFF | | — | |
|  (movies) | — | | OFF | | — |
| FUNCTION | — | OFF | | | — |
|  | HQ | HQ: 2272x1704 (For other record modes, settings are as follows.) TIFF: 2272x1704 SHQ: 2288x1712 SQ1: 1280x960/ NORMAL SQ2: 640x480/ NORMAL | | HQ | — |
| WB | — | AUTO ( when PRESET is selected) | | | — |

Modes & Factory Default Settings (Cont.)

| Mode Function |  |  |  |  | Play-back |
|---|---|---|---|---|-----------|
|  | — | | ± 0 | — | |
| SHARPNESS | — | | ± 0 | — | |
| CONTRAST | — | | ± 0 | — | |
| SATURATION | — | | ± 0 | — | |
| ALL RESET | — | ON | | | |
|  | — | LOW | | | |
| SHUTTER SOUND | — | 1/LOW | | | |
| PW ON SETUP | — | SCREEN: 1, SOUND: 1 | | | |
| PW OFF SETUP | — | SCREEN: 1, SOUND: 1 | | | |
| REC VIEW | — | | ON | | — |
| SLEEP | — | | 3min | — | |
| FILE NAME | — | | RESET | — | |
|  | — | ± 0 | | | |
|  | YMD/2001/1/1 | | | | |
| m/ft | — | | m | — | |
| SHORT CUT | — | | A:  B:  C: WB | — | |
| VOLUME | — | | | | 3 |
|  | — | | | | 9 |
| INFO | — | | | | OFF |

- When “—” appears in a mode column, it means that the corresponding function is not available in that mode or cannot be set in that mode. Some function settings are automatically determined by the settings selected in other modes.



Chapter 4








Shooting basics



This chapter explains the basics of taking good pictures with your camera. You should read it through in order to make the most of the information provided.

Before using the camera, also be sure to read "How to use this manual" and "Getting started", chapter 1.

Shooting mode setting — Mode dial

Set the mode dial to any of the following positions and open the lens barrier.

Shooting mode: **AUTO**, , , , , , P, A/S/M, , 

- The camera turns on and the lens automatically extends.
- When the camera mode is set to **A/S/M**,  or , the monitor turns on automatically.



Full-auto shooting

Allows you to take still pictures using NO special functions or manual adjustments. The camera sets optimal focusing and exposure. Suitable for simple shooting.

Portrait shooting

Suitable for shooting a portrait-style shot of a person. This mode features an in-focus subject against a blurred background. The camera automatically sets the optimal shooting conditions.

Landscape-Portrait shooting

For example, if you want to take a picture with a beautiful background, you will want to have both your subject and the background in focus. The camera automatically sets the optimal shooting conditions.

Landscape-Scene shooting

Suitable for taking pictures of landscapes and other outdoor scenes landscape. The camera focuses on a distant subject (tree, mountain, etc.) and the picture comes out clear. Since blues and greens are reproduced vividly in this mode, the Landscape-Scene mode is excellent for shooting natural scenery. The camera automatically sets the optimal shooting conditions.

Shooting mode setting — Mode dial (Cont.)

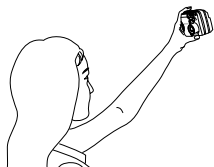
Night Scene shooting

Suitable for shooting pictures in the evening or at night. The camera sets a slower shutter speed than is used in normal shooting. For example, if you take a picture of a street at night in the **AUTO** mode, the lack of brightness will result in a dark picture with only the sparkle of lights such as street lamps appearing. In the Night Scene shooting mode, the true appearance of the street can be captured. The camera automatically selects the optimal settings for this type of shooting condition.



Self-Portrait shooting

Enables you to take a picture of yourself while holding the camera. Point the lens towards you and take a shot. The focus is locked on you (shooter). The camera automatically selects the optimal settings for this type of shooting condition. Zooming is not possible.



Program shooting

Allows you to take still pictures. The camera sets aperture and shutter speed. Other functions, such as flash modes and drive modes, can be adjusted manually.

Aperture priority/Shutter priority/Manual shooting

Allows you to set aperture and/or shutter speed manually. When the mode dial is set to A/S/M, the following items can be set with the menus:

Shooting mode setting — Mode dial (Cont.)

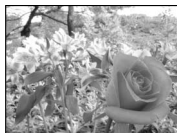
A (Aperture priority shooting)

Allows you to set the aperture manually. The camera sets the shutter speed automatically. By decreasing the aperture value (F value), you will force the camera to focus within a smaller range, producing a picture with a blurred background. Increasing the value forces the camera to focus over a wider range in the forward/backward directions, resulting in a picture in which both the subject and the background are in focus.

Aperture setting → P. 65



Aperture (F value) is decreased.



Aperture (F value) is increased.

S (Shutter priority shooting)

Allows you to set the shutter speed manually. The camera sets the aperture automatically. Set the shutter speed according to the subject and the type of picture you want.

Shutter speed setting → P. 66



Setting the shutter speed higher lets you capture fast-moving action without blur. The subject will be clear and sharp, as if not moving.



Setting the shutter speed lower blurs a moving subject, giving the impression of movement.

M (Manual shooting)



Allows you to set the aperture and shutter speed manually. To check the exposure, refer to the exposure differential. This mode gives you more creative control, allowing you to make the settings you need to get the type of picture you want, regardless of optimum exposure.

Aperture & shutter speed setting → P. 67

Shooting mode setting — Mode dial (Cont.)



My Mode

Allows you to take still pictures. Your favorite settings can be saved in MY MODE SETUP (in the menu's SETUP). Customized settings are activated when the power is turned on in the  mode. Settings such as aperture value, zoom position, etc. can be customized. In the  mode, you can select exposure mode (shooting mode) from P, A, S, or M. Settings can be specified with the camera's setting menus.

The shortcut menu can also include different items than the shortcut menus in the P or A/S/M mode.

MY MODE SETUP → P. 140



Movie record

Allows you to record movies. The camera sets the aperture and shutter speed automatically. Even if the subject moves during recording or the distance to the subject changes, correct focusing and exposure are maintained continuously.

Shooting mode setting — Mode dial (Cont.)

Aperture setting — Aperture priority shooting



1 In the top menu, select **MODE MENU** → **CAMERA** → **P/A/S/M** → **A**.

2 To increase the aperture value (F value), press Δ .



To decrease the aperture value (F value), press ∇ .

■ If the aperture value is displayed in red

The aperture you have set is unsuitable for the conditions.

▼ appears. → Press ∇ to decrease the aperture value.

▲ appears. → Press Δ to increase the aperture value.

Green:

The aperture setting will provide optimum exposure.



Red:

The aperture setting is unsuitable for optimum exposure.



| Zoom position | Value |
|---------------|-------------------------------------|
| Wide (W) | f2.8*, f3.4, f4.0, f4.8, f5.6, f8.0 |
| Tele (T) | f4.8*, f5.6, f8.0 |

*Open-aperture (the widest aperture setting) depends on the zoom position.

Note:

- When the flash is set to the auto-flash mode, the shutter speed is fixed at 1/30 sec. in the maximum wide-angle, or 1/100 sec. in the maximum telephoto, and can never go slower.

Shooting mode setting — Mode dial (Cont.)

Shutter speed setting — Shutter priority shooting



1 In the top menu, select **MODE MENU** → **CAMERA** → **P/A/S/M** → **S**.

2 To set the shutter speed faster, press Δ .



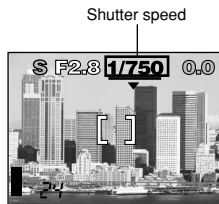
To set the shutter speed slower, press ∇ .

■ If the shutter speed is shown in red

The shutter speed you have set is unsuitable for the conditions.

∇ appears. → Press ∇ to set the shutter speed slower.

Δ appears. → Press Δ to set the shutter speed faster.



Shutter speed range: 4^{*1} to 1/1000^{*2} sec.

*1 Varies depending on the ISO setting.

ISO 100: 4 sec.

ISO 200: 2 sec.

ISO 400: 1 sec.

*2 Varies between 1/500 to 1/1000 depending on the aperture value and/or zoom position.

Shooting mode setting — Mode dial (Cont.)

Aperture & Shutter speed setting — Manual shooting

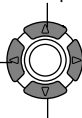


1 In the top menu, select **MODE MENU** → **CAMERA** → **P/A/S/M** → **M**.

2

To set the shutter speed faster, press Δ .

To increase the aperture value (F value), press \triangleleft .



To decrease the aperture value (F value), press \triangleright .

To set the shutter speed slower, press ∇ .

F value: **W** → f2.8^{*1}, f3.4, f4.0, f4.8, f5.6, f8.0

T → f4.8^{*1}, f5.6, f8.0

Shutter speed: 16 to 1/1000^{*2} sec.

^{*1} Open-aperture (the widest aperture setting) depends on the zoom position.

^{*2} Varies between 1/500 to 1/1000 depending on the aperture value and/or zoom position.

■ Exposure differential

- The difference (ranging from -3.0 to +3.0) between the exposure determined by the currently selected aperture and shutter speed compared to the exposure level considered optimal by the camera appears in the upper right-hand corner.
- When the exposure differential is set to less than -3.0 or more than +3.0, the exposure differential appears in red.

Aperture (F value) Shutter speed






!Note:

- To avoid camera movement, we recommend use of a tripod for any effect which uses a lower shutter speed.

Shooting mode setting — Mode dial (Cont.)


Using My Mode

The shooting mode you selected with the menus in the  mode is activated. You can also save the shooting mode or function settings you are currently using in the  mode. If you set the mode dial to  again, the camera will activate these stored settings. → MY MODE SETUP (P. 140)



- 1 In the top menu, select **MODE MENU** → **CAMERA** → **P/A/S/M** → Select a mode.

Note:

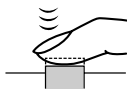
- Although the settings you are using can be saved, the saved zoom position will not be the same as the one being used.
- In the  mode, the monitor always turns on, regardless of the P/A/S/M mode setting.

How to use the shutter button

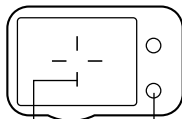
- 1 Point the camera towards the subject. Place the AF target mark on the subject while viewing through the viewfinder.

Press the shutter button gently (halfway).

- When the focus and brightness (exposure) are locked, the green lamp next to the viewfinder lights.



Viewfinder



AF target mark Green lamp

How to use the shutter button (Cont.)

2 Press the shutter button all the way.

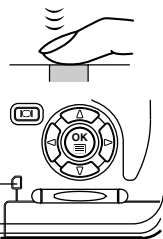
- Shooting starts and the green lamp blinks.
- AUTO**, , , , , **P**, **A/S/M**, or mode: The camera starts storing your pictures on the card. While pictures are being stored, the card access lamp blinks.
- mode: The camera starts recording a movie.



3 ONLY for the (movie record) mode To stop recording, press the shutter button all the way again.

- The card access lamp blinks and the camera starts storing the movie on the card. You cannot record another movie until the card access lamp stops blinking,

Card access lamp



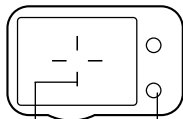
Focusing

Auto focus

When you place the AF target mark on a subject and press the shutter button halfway, the green lamp lights up. This means that focusing is being performed automatically.

If the green lamp blinks, focusing is not correct. If this happens, use Manual focus (P. 73) or Focus lock (P. 71).

Viewfinder



AF target mark Green lamp

Focusing (Cont.)

When Auto focus does not work — Subjects that are difficult to focus on

Under certain types of conditions auto focus may not work properly. If you run into problems, try the procedure below or switch to Manual focus (P. 73).

Conditions **1**, **2** and **5**

Auto focus may not work properly. The green lamp may blink.

Conditions **3** and **4**

Auto focus may not work properly even when the green lamp lights when you press the Shutter button down halfway.

1 Subjects with low contrast



2 Subjects in excessively bright light in the center of the frame



3 Subjects at different distances

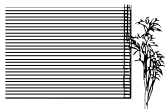


4 Fast-moving subjects



Position the AF target mark in the viewfinder on an object that is the same distance from the camera as the subject, then half-press the shutter button to lock focus, while keeping your finger half-pressed on the shutter button, frame the picture you want to shoot, and then fully press the shutter button (P. 71).

5 Subjects with no vertical lines

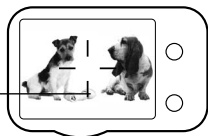


Hold the camera vertically, half-press the shutter button and hold it down to lock the focus. Re-position the camera horizontally, compose the picture and then fully press the shutter button to take the picture (P. 71).

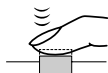
Focus lock — Focusing on subjects that are not in the center of the frame

If the subject of your composition is not within the AF target mark and focusing is not possible (as illustrated to the right), try the following:

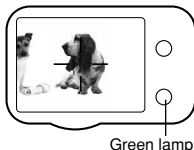
AF target mark



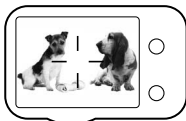
- 1** Position the AF target mark over the subject. Press the Shutter button halfway to lock the focus.



Brightness (exposure) is also locked and the green lamp lights.



- 2** Compose your picture (point the camera towards the subject) while keeping the Shutter button pressed halfway.



- 3** Press the Shutter button all the way.



TIPS

- **The green lamp blinks.**

→ Focus and exposure are not locked. Release your finger from the shutter button and the green lamp turns off. Position your subject again. Repeat step 1 until the green lamp lights up without blinking.

Focusing (Cont.)

FULLTIME AF

— Continuous focusing on moving subjects

FULLTIME AF keeps the image on the monitor in focus at all times, without having to press the shutter button halfway. This function reduces focusing time. When OFF is selected, images cannot be focused unless the shutter button is pressed halfway.

- 🔍 mode: When FULLTIME AF is set to ON, correct focus and exposure are maintained continuously in the record or stand-by mode. When FULLTIME AF is set to OFF, recording continues with the focus locked when the shutter button is pressed halfway.



- 1 In the top menu, select **MODE MENU** → **CAMERA** → **FULLTIME AF** → **ON**.

- 2 Turn on the monitor (P. 78).

- If the monitor is not on, Fulltime AF does not function.

Factory default setting

P A/S/M : OFF

: ON

!Note:

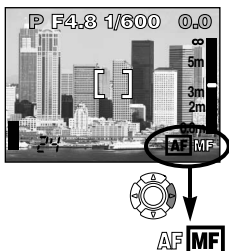
- Battery life is shorter when Fulltime AF is used.

Manual focus

If Auto focus is unable to lock, use manual focus.



- 1 Hold down for more than 1 second. When the focus distance selection screen appears on the monitor, press to select MF.



- 2 Press to select the focus distance.
 - During operation, the picture is enlarged. The lengths shown are for reference only. When the length indicator is moved to less than 0.8 m (2.6 ft), the bar display automatically switches to the 10 cm (4")–80 cm (31") bar display.



- 3 Hold down for more than 1 second to save the setting.
 - MF appears in red.

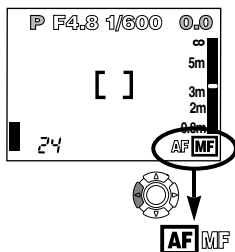


- 4 Shoot.
 - Focus is locked at the distance you have set.

- 5 To cancel the saved MF setting, hold down again for more than 1 second to display the focus distance selection screen.

Focusing (Cont.)

- 6** To return to the AF mode, press \triangleleft to select AF, then press OK .

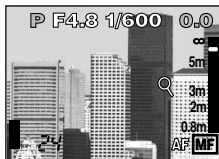


TIPS

• **How to shoot while keeping the same focus distance at all times**

→ The MF can be locked at the same length as when you perform focus lock.

- 1** Focus on anything within the AF target mark. Press the shutter button halfway to lock focus.
- 2** Without letting go of the shutter button, hold down OK . The focus distance screen appears. On the screen, MF is selected and the focus distance is the same as when you performed focus lock.



• **Although MF is selected and the length indicator reaches the top of the bar, focusing is not possible at ∞ .**

→ Adjust by moving $\triangle \nabla$ slightly while watching the monitor.

• **Although the focus distance is saved, the picture goes out of focus.**

→ If the zoom lever is pressed after manual focus setting, the saved focus distance may be changed. Try setting again.

Taking still pictures



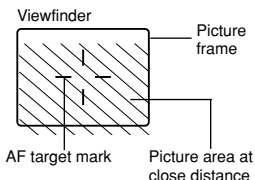
Taking still pictures while using the viewfinder

The camera actually records a wider area than the picture you composed while viewing through the viewfinder.



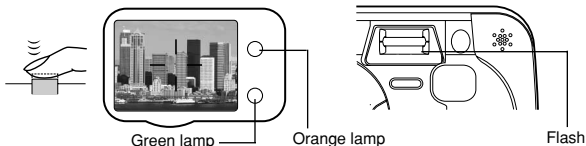
- 1 **Point the camera towards a subject while viewing through the viewfinder. Place the subject on the AF target mark.**

- The picture area moves lower in the viewfinder as you get closer to the subject. If this happens, use the monitor (P. 77).



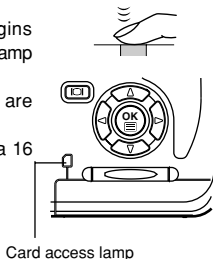
- 2 **Press the shutter button halfway.**

- When focus and exposure (brightness) are locked, the green lamp lights.
- If the orange lamp lights, the flash fires automatically.
→ See "Flash shooting" (P. 87).



- 3 **Press the shutter button all the way.**

- The green lamp blinks and the camera begins storing pictures on the card. When the green lamp stops blinking, you can take another shot.
- The card access lamp blinks while pictures are being stored on the card.
- Number of still pictures that can be stored on a 16 MB card →
HQ record mode (2272 x 1704):
Approx. 16
SQ2 record mode (640 x 480 NORMAL):
Approx. 165



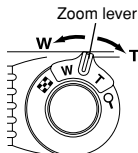
Taking still pictures (Cont.)




TIPS

• How to zoom in on a subject or shoot a wider picture (zoom-out)

→ To zoom in on a subject, press the zoom lever towards T. To shoot a wider picture, press the zoom lever towards W (P. 82).



• How to shoot using the monitor

→ Press the  (monitor) button (P. 78).

• If you cannot release the shutter button

→ While the orange lamp blinks, the flash is charging. During charging, the shutter button is not released. When the orange lamp goes off, press the shutter button again.

→ If CARD FULL appears, there is no space on the card. Delete pictures (P. 134, 135), replace with a new card (P. 29) or transfer pictures to a computer (P. 175 – 178, 181).

• The subject is outside the AF target mark.

→ Place the subject within the AF target mark and use the focus lock (P. 71).

• The green lamp blinks.

→ If you want to get as close as 0.1 m (0.3 ft) in the maximum W position or 0.25 m (0.8 ft) in the maximum T position to your subject, put the camera into the macro mode (P. 92).

→ Depending on the subject, focus and exposure (brightness) may not be locked (P. 70).

• How to reduce the focusing time

→ Set FULLTIME AF (P. 72), and use the monitor to shoot (P. 77).

• How to check the picture just taken

→ Set REC VIEW to ON. The picture can be displayed on the monitor (P. 152).

• How to record sound during shooting

→ Set  (for still pictures) to ON (P. 99).

Taking still pictures (Cont.)



Note:

- Press the shutter button gently using the ball of your finger. If it is pressed hard, the camera may move and pictures may come out blurred.
- Recorded pictures will be saved in the card regardless of whether the camera is turned off or the batteries are replaced or removed.
- NEVER open the card cover, eject the card, remove the batteries, or pull the plug when the card access lamp is blinking. Doing so could destroy stored pictures and prevent storage of pictures you have just taken.

Taking still pictures while using the monitor

With the monitor, you can shoot while checking the picture area that the camera actually records. It is also possible to check information such as memory gauge, aperture or shutter speed, etc.

Comparison of the viewfinder & monitor

Viewfinder

Advantage:

Camera movement does not occur easily and subjects can be seen clearly even in bright places. Little battery power is used.

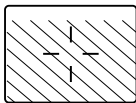
Disadvantage:

When close to a subject, the image in the viewfinder is a little different from the picture that the camera actually records.

Tips:

Use the viewfinder for general snapshots (landscape pictures, casual shots, etc.) or when taking several pictures in a row.

Viewfinder



Striped area: Picture that the camera actually records.

Monitor

Advantage:

You can check the picture area that the camera actually records.

Disadvantage:

Camera movement can occur easily and subjects may be difficult to see in bright/dark places. The monitor uses more battery power than the viewfinder.



Tips:

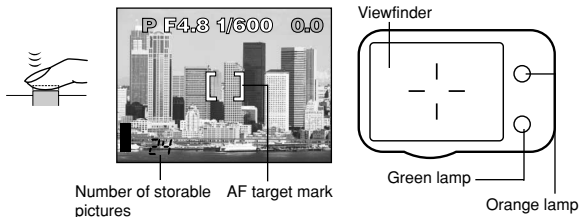
Use the monitor when you need to know the exact area the camera records, or to shoot a subject 0.1 m - 0.8 m (0.3 ft - 2.6 ft) or closer (macro shooting).

- The camera records a wider area than the image in the viewfinder.
- As you get closer to the subject, the actual image recorded becomes lower than the one in the viewfinder (see left).

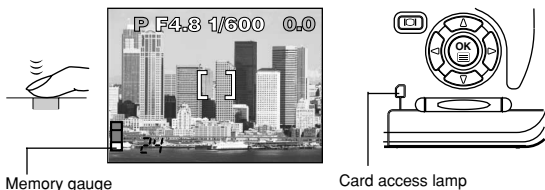
Taking still pictures (Cont.)



- 1 Press the  (monitor) button to turn on the monitor.**
 - In the A/S/M or  mode, the monitor turns on automatically.
- 2 Point the camera towards a subject while viewing through the monitor. Place the subject on the AF target mark.**
- 3 Press the shutter button halfway.**
 - When focus and exposure (brightness) are locked, the green lamp lights.
 - If the orange lamp lights, the flash fires automatically. → See “Flash shooting” (P. 87).



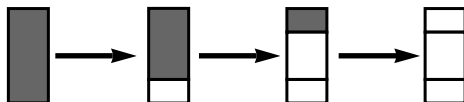
- 4 Press the shutter button all the way.**
 - The bottom of the memory gauge lights, the card access lamp blinks, and the camera begins storing pictures on the card.



Taking still pictures (Cont.)



If you take pictures continuously, the indication changes as shown below. The memory gauge lets you know if another shot is possible.



Before shooting/No picture taken

One picture taken

More than one taken

No recordable space
When the indication returns to any status shown on the left, you can take more shots.



TIPS

- **The monitor does not turn on.**

→ If the camera is not used for over 3 minutes, the monitor turns off. If you operate the shutter button or zoom lever, the monitor turns on again.

- **Vertical lines on the monitor screen make it hard to see the image.**

→ Bright light (such as direct sunlight) may cause vertical lines to appear on the monitor screen. In this case, use the viewfinder.

- **How to brighten/darken the monitor**

→ ① In the top menu, select MODE MENU → SETUP →

② To brighten the monitor, press Δ . To darken it, press ∇ . To complete the setting, press OK .

The MODE MENU's monitor brightness setting has no effect in the **AUTO** mode.

To use the monitor brightness setting, switch from **AUTO** to another mode.



- **Camera movement is less noticeable when using the viewfinder rather than the monitor.**

- **Also read the "TIPS" on "Taking still pictures while using the viewfinder" (P. 76).**

Note:

- The monitor consumes more battery power than the viewfinder.
- If you shoot using the monitor for a long time, noise may appear on pictures.

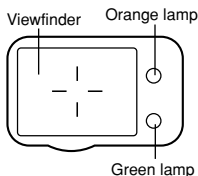
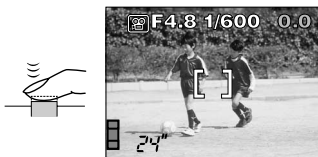
Recording movies



- 1 Point the camera towards a subject while viewing through the monitor. Place the subject on the AF target mark.

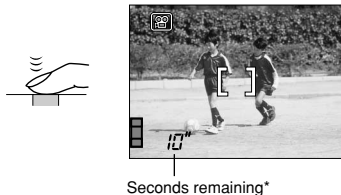
- 2 Press the shutter button halfway.

- When focus and exposure (brightness) are locked, the green lamp lights.



- 3 Press the shutter button all the way.

- The orange lamp lights up during movie recording.
- During movie recording, sound is recorded simultaneously. → See "Recording sound with movies" (P. 100).

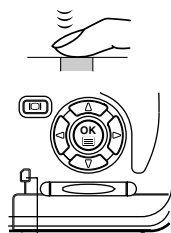


* The displayed seconds remaining shows the time you can shoot continuously by holding down the shutter button.



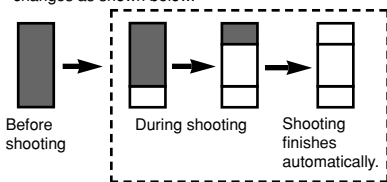
4 Press the shutter button all the way to stop recording.

- The card access lamp blinks and the camera begins storing the movie on the card. You cannot record another movie as long as the card access lamp is blinking.
- When the card access lamp stops blinking, the camera has finished writing the movie to the card. If there is any space left on the card, the number of seconds remaining is displayed. You can start shooting another movie.
- When you the remaining time displayed has been used up, shooting stops automatically and the camera starts writing the movie to the card. This will happen regardless of whether or not you press the shutter button to stop shooting.



Card access lamp

If you take pictures continuously, the indication changes as shown below.



After shooting, these indications may still be on the screen. Shooting is not possible until they are gone.



TIPS

• Shooting is not possible.

- Shooting is not possible while the camera is saving pictures to the card. If the memory gauge goes off, you can take another shot.
- If CARD FULL appears, there is no space left on the card. Delete pictures (P. 134, 135), replace with a new card (P. 29) or transfer pictures to a computer (P. 175 – 178, 181).

Recording movies (Cont.)



Note:

- In the mode, the default setting for is OFF. During movie recording, you can use the optical zoom unless is set to ON — in which case the optical zoom is not available. However, if DIGITAL ZOOM is set to ON, the digital zoom is available.

Zoom — Telephoto/Wide-angle shooting

Telephoto/Wide-angle shooting is possible at up to 2.8x magnification (optical zoom limit). By combining the digital zoom with the 2.8x optical zoom, zoom magnification up to approx. 7x (equivalent to 35 mm–245 mm on a 35 mm camera) is possible.

Shoot a wider view picture (wide-angle)

Press the zoom lever toward W to zoom out.



Zoom in on a subject (telephoto)

Press the zoom lever toward T to zoom in.



Digital zoom



- : In the top menu, select DIGITAL ZOOM → ON.
P A/S/M : In the top menu, select MODE MENU → CAMERA → DIGITAL ZOOM → ON.

Zoom — Telephoto/Wide-angle shooting (Cont.)

2 Press the zoom lever towards T.

- The monitor turns on.
- If the monitor turns off, the digital zoom returns to 1x.

Zoom area



Digital zoom ON









The cursor moves on the zoom indicator according to the zoom magnification.


Factory default setting: OFF



TIPS

- In the  mode, the factory default setting of  is OFF. During movie recording, you can only use the optical zoom.
- Zoom in/out during  (movie record) mode
When  is set to ON in the menu during the  mode, only digital zoom can function while shooting. For this reason, it is necessary to select the optical zoom magnification level by using the zoom lever before shooting.
- If **DIGITAL ZOOM** is set to **OFF** in the  mode, zooming is not possible.

Note:

- In the  mode, you cannot use both the optical zoom and digital zoom.
- Images captured with the Digital Zoom may appear grainy.
- Camera movement is likely to happen at higher magnifications. Stabilize the camera with a tripod, etc. to avoid camera movement.

Flash shooting

Select a flash mode appropriate to the lightning conditions and the effect you want to achieve. You can also adjust the amount of light emitted using the flash intensity control (P. 89).

The flash modes are as follows:

Auto-flash

Automatically fires in low-light and backlight conditions.

Red-eye reduction flash



This mode significantly reduces the phenomenon of “red-eye” by emitting about 10 pre-flashes before firing the regular flash. This mode works the same as the auto-flash except for the pre-flashes.



The subject's eyes appear red.

Note:

- After the pre-flash, it takes about 1 second before the shutter is released, so do not move the camera and hold it firmly.
- Effectiveness may be limited if the subject is not looking directly at the preflashes, or if the shooting range is too far. Individual physical characteristics may also limit effectiveness.

Fill-in flash



The flash fires regardless of available light. This mode is useful for eliminating shadows on the subject's face or for correcting the color shift produced by artificial lighting (especially fluorescent light).



Note:

- Fill-in flash may not have the desired effect under excessively bright light.

Flash shooting (Cont.)

Flash off



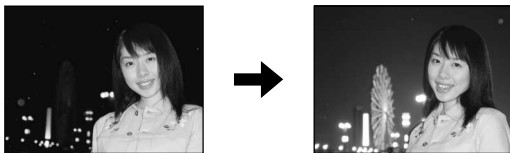
The flash does not fire even in low-light conditions. Use this mode in situations where flash photography is not desired or is prohibited, or when you want to shoot a natural-looking twilight or night scene.

Note:

- Since a slow shutter speed is automatically selected in low-light situations when in the flash off mode, the use of a tripod is recommended to prevent your pictures from being blurred by camera movement.

Slow Synchronization ⚡ SLOW1 ⚡ SLOW2 👁 ⚡ SLOW

The Slow Synchronization flash is designed for slow shutter speeds. Normally, when shooting with a flash, shutter speeds cannot go below a certain level to prevent camera movement. But when shooting a night scene background, fast shutter speeds can make the background too dark. Slow Synchronization flash allows both a slow shutter speed for the background and a flash for the subject.



■ ⚡ SLOW1:

1st curtain (front curtain)

Usually, regardless of the shutter speed, the flash fires right after the shutter fully opens. This is called 1st curtain. Unless you change it, this is how the flash always fires.

Flash shooting (Cont.)

■ ⚡ SLOW2:

2nd curtain (rear curtain)

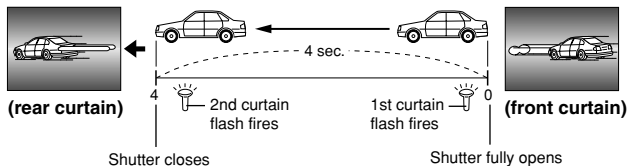
In contrast to 1st curtain, 2nd curtain fires the flash just before the shutter closes. Changing the flash timing can create interesting effects in your picture, such as expressing the movement of a car by showing the taillights streaming backwards. The slower the shutter speed, the better the effects turn out.

Slowest possible shutter speed depends on the shooting mode:

M mode : 16 sec.

P/A/S mode : 4 sec. (depending on the ISO setting.)

When the shutter speed is set to 4 sec.



■ 👁 ⚡ SLOW:

1st curtain with red-eye reduction

This is for when you want to use Slow Synchronization yet also reduce red-eye. For instance, when shooting a person against a brightly lit night background. A normal flash might make the person's eyes red, but 1st curtain with red-eye reduction lets you capture the background correctly and reduce red-eye at the same time.

2nd curtain with red-eye reduction is not available.

Using the Slow Synchronization flash

Use the menu to select one of the 3 Slow synchronization flash modes above.



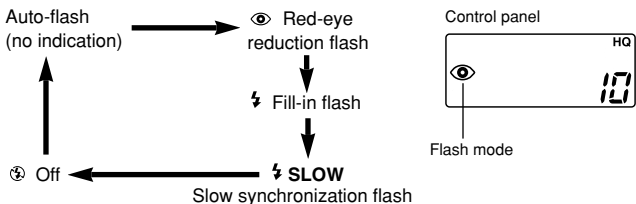
In the top menu, select **MODE MENU** → **CAMERA** → ⚡ SLOW → ⚡ SLOW1, ⚡ SLOW2 or 👁 ⚡ SLOW.

Using the flash



1 Press the (flash mode) button repeatedly until the desired flash mode indication appears.

- The flash mode changes as follows (if all modes are available):

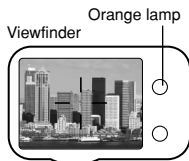


2 Press the shutter button halfway.

- Before the flash fires, the orange lamp blinks.

3 Press the shutter button all the way.

- The flash fires.



Flash working range

W (max.): Approx. 0.8 m – 3 m (2.6 ft – 9.8 ft)

T (max.): Approx. 0.25 m – 1.8 m (0.8 ft – 5.9 ft)

Flash shooting (Cont.)

Modes & Flash mode

| Mode | | Flash mode | Factory default setting |
|--------------|---|-------------|-------------------------|
| AUTO | | Auto-flash, | Auto-flash |
| | | , | |
| | | Auto-flash, | Auto-flash |
| | | SLOW, | SLOW |
| P | | All modes | Auto-flash |
| A/S/M | A | All modes | Auto-flash |
| | S | SLOW, | SLOW |
| | M | | |
| | | All modes* | Auto-flash |

* Depending on the shooting mode selected.



TIPS

● If the flash does not fire

→ Flash does not fire in the following situations: When shooting a bright subject, in the movie record mode, during Sequential shooting (, , **BKT**) (P. 96, 97), when FUNCTION is set to WHITE BOARD/BLACK BOARD (P. 103), during Panoramic shooting (P. 101).

● The orange lamp blinks.

→ The flash is charging. Remove your finger from the shutter button. When the lamp stops blinking, press it again.

● Camera movement warning (Auto, Red-eye reduction, Fill-in)

When the orange lamp lights, the shutter speed locks at its current level. This helps prevent camera shake problems (shutter speeds that are too slow can cause blur). However, if the zoom magnification is increased while the orange lamp is lit, the camera will increase the locked shutter speed accordingly.

Zoom position & Shutter speed

W (max.): 1/30 sec., T (max.): 1/100 sec.

!Note:

- The flash may not give you the optimum result in Macro mode, especially with wide-angle shooting. Check the result on the monitor.

Flash shooting (Cont.)

Flash intensity control

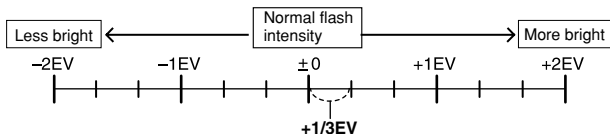
You can adjust the amount of light emitted by the flash.

In some situations, you may get better results by adjusting light emission. Examples include small subjects, distant backgrounds, or situations when increased contrast is desired.



In the top menu, select **MODE MENU** → **CAMERA** → . To increase the light emission, press Δ . To decrease the light emission, press ∇ . To complete the setting, press .

Adjustable range



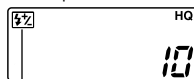
Δ : Light emission is increased by a 1/3 EV each time you press the button.

∇ : Light emission is decreased by a 1/3 EV each time you press the button.

(EV: Exposure Value)

Factory default setting: ± 0

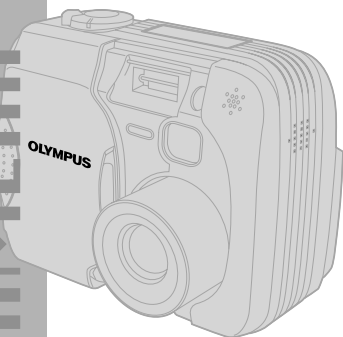
Control panel



Flash intensity control

Note:

- The flash adjustment effect may not be sufficient if the shutter speed is too fast.



Chapter 5

Advanced shooting

Advanced shooting methods such as metering modes and special effects let you take more creative pictures.

Spot metering

— Selecting the metering area

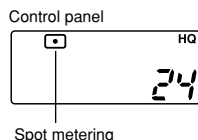
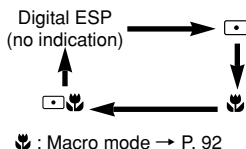
There are 2 metering methods: Digital ESP metering and spot metering.

Digital ESP metering: Meters the center of the subject and the area around it.

Spot metering: Exposure is determined by metering within the AF target mark. In this mode, a subject can be shot with optimal exposure regardless of the background light. In the working range of the macro mode, spot metering is also available (spot metering+macro mode).



- 1 Press the button repeatedly until (spot metering) or (spot metering+macro mode) appears on the control panel.



- 2 Take a picture.



Supported working range

Normal (except macro) : 0.8 m to ∞ (2.6 ft to ∞)

Macro W : 0.1 m to 0.8 m (0.3 ft to 2.6 ft)
 T : 0.25 m to 0.8 m (0.8 ft to 2.6 ft)

Factory default setting: Digital ESP

Macro mode shooting — Taking close-up pictures

Usually focusing is slow when you get as close as 0.1 m - 0.8 m (0.3 ft - 2.6 ft) to the subject. However, in the  mode focusing is performed quickly. The  (macro) mode allows you to shoot close to the subject (within 0.1 m - 0.8 m (0.3 ft - 2.6 ft)). With the zoom lever is pressed to the maximum W position, you can fill the entire frame with your subject.

If the center of the frame (within the AF target mark) is metered when you are close to the subject and you shoot with the optimal exposure, the picture will turn out well (Spot metering+Macro mode). → See “Spot metering” (P. 91).

If you are close to a subject, the picture area in the viewfinder is different from the picture that the camera actually records. For macro mode shooting, we recommend using the monitor (P. 77).

Normal shooting



With the macro mode



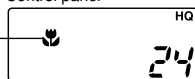
- Press the  button repeatedly until  (Macro mode) or  (Spot metering+Macro mode) appears on the control panel.

Digital ESP
(no indication)



Control panel

Macro mode



- Take a picture.

Supported working range







Normal (except macro) : 0.8 m to ∞ (2.6 ft to ∞)

Macro W : 0.1 m to 0.8 m (0.3 ft to 2.6 ft)

T : 0.25 m to 0.8 m (0.8 ft to 2.6 ft)

Factory default setting: Digital ESP

Note:

-  (Macro) mode setting is not possible in the **AUTO**, , , ,  or  mode. However, shooting is possible in the macro shooting range.

Self-Timer Shooting

This function is useful for taking pictures where the shooter wants to be included in the photograph.

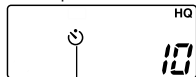


1 Use a tripod to stabilize the camera.

2 : In the top menu, select → .

P A/S/M : In the top menu, select **MODE MENU** → **CAMERA** → → .

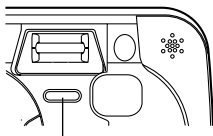
Control panel



Self-timer

3 Press the shutter button fully to start self-timer shooting.

- The self-timer/remote control lamp lights up for approx. 10 seconds, then starts blinking. After blinking for approx. 2 seconds, the picture is taken. (In the mode, recording starts.)
- To stop shooting while in the mode, press the shutter button fully again.



Self-timer/remote control lamp

Factory default setting: OFF



TIPS

- To stop the self-timer, press . The self-timer/remote control lamp will turn off.

Note:

- The self-timer mode is not saved after the power is turned off even if All Reset is set to OFF (P. 146).
- The self-timer mode is canceled automatically when shooting is finished.
- In the mode, the camera automatically stops shooting when it goes over the maximum recording time for one shot.
- If self-timer shooting is attempted when the still picture shooting mode (, , , , **P**, **A/S/M**,) is set to sequential shooting, the camera shoots 5 frames automatically.

Remote control shooting

Shooting is possible using the remote control. This is useful when you want to take a picture with yourself in it. If you want to release the shutter without touching the camera (when shooting pictures in the evening or at night, etc.), you can use the remote control instead of the camera's shutter button.

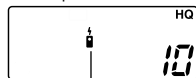


1 Mount the camera on a tripod or place it on a stable, flat surface.

2 : In the top menu, select → .

P A/S/M : In the top menu, select **MODE MENU** → **CAMERA** → → .

Control panel



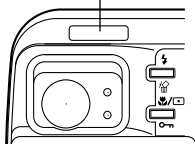
Remote control

3 Point the remote control at the remote control receiver on the camera. For zooming, press the W or T button on the remote control.

- During operation, the camera's self-timer/remote control lamp blinks.

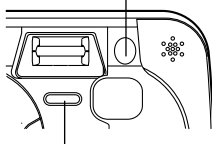
Monitor side

Remote control receiver



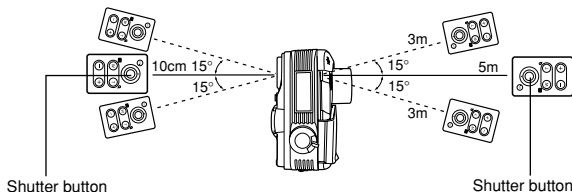
Lens side

Remote control receiver



Self-timer/remote control lamp

Transmitted remote control signal effective area



Remote control shooting (Cont.)

4 Press the shutter button on the remote control.

- The camera's self-timer/remote control lamp blinks for about 3 seconds before taking the picture.

Factory default setting: OFF



TIPS

● **If the camera's self-timer/remote control lamp does not blink after pressing the shutter button on the remote control.**

- The remote control may be too far from the camera. Move closer to the camera and press the shutter button again on the remote control.
- There is signal interference. Change the signal as described in the remote control's instructions.



● **How to cancel the remote control mode.**

- The remote control mode is not canceled automatically after shooting. Perform step 2 on page 94: Set to OFF.

!Note:


- If the remote control receiver is exposed to strong light, the effective signal distance may be reduced or shooting may not take place.
- To shoot sequential shots in the still picture shooting mode (, , , , , P, A/S/M,) using the remote control, press and hold the shutter button on the remote control. If the camera does not receive the remote control signal properly, sequential shooting may stop.
- Read the remote control's instructions for information on playback with the remote control.
- If you are diagonally below the camera and you point the remote control at the remote control receiver on the monitor side, the remote control signal will have difficulty reaching the receiver.


Sequential shooting


There are 3 Sequential shooting modes: Sequential shooting , AF Sequential shooting  and Auto bracketing BKT.

Sequential shooting modes can be selected from the DRIVE mode menu.

Drive mode


Single-frame shooting  : Shoots 1 frame at a time when the shutter button is pressed all the way. (normal shooting)


Sequential shooting  : Sequential shooting & AF Sequential shooting → See below.

AF Sequential shooting  : Sequential shooting & AF Sequential shooting → See below.

Auto bracketing BKT : Auto bracketing → P. 97

Sequential shooting & AF Sequential shooting

Sequential shooting  : Shoots pictures sequentially. Focus, exposure and white balance are locked at the first frame.

AF Sequential shooting  : Shoots pictures sequentially. Focus is locked for each frame automatically. The AF Sequential shooting speed is lower than normal sequential shooting.

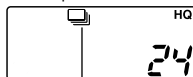


- 1 In the top menu, select **MODE MENU** → **CAMERA** → **DRIVE** →  or .

2 Take pictures.

- Press the shutter button all the way and keep it pressed. The camera will take pictures in sequence until you release the button.
- Sequential shooting speed (HQ mode): 2 frames/sec. approx., number of pictures: 8 max.

Control panel



Sequential shooting

Note:

- Also read the “Note” and “Modes & Drive mode” on P. 98.

Sequential shooting (Cont.)

Auto bracketing — Shooting pictures sequentially with a different exposure for each frame

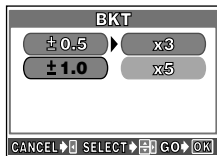
Under some conditions, you may obtain better results shooting with exposure compensation than by using the exposure setting considered optimal by the camera. When Auto bracket is set, exposure is changed automatically for each frame when you start shooting. The exposure differential can be selected in the menus. Focus and white balance are locked at the first frame.

Ex: When BKT is set to ± 1.0 , x3



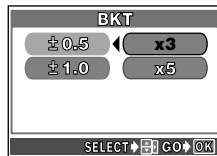
- 1 In the top menu, select **MODE MENU** → **CAMERA** → **DRIVE** → **BKT**. Press \triangleright .

- 2 Press $\triangle \nabla$ to select the exposure differential between each frame (± 0.5 , ± 1.0), then press \triangleright .



- 3 Press $\triangle \nabla$ to select the number of frames to shoot (x3, x5), then press \odot .

- In some combinations of picture size and record mode (NORMAL/HIGH), only x3 is available.

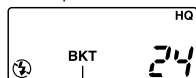


Sequential shooting (Cont.)

4 Take pictures.

- Press the shutter button all the way and keep it pressed to shoot the preset number of pictures. You can stop shooting at any time by releasing the shutter button.

Control panel



Auto bracket

Modes & Drive mode

| Mode | | Drive mode | Factory default setting |
|--------------|----------|--------------------------------|--------------------------|
| | | , | <input type="checkbox"/> |
| P | | All modes | <input type="checkbox"/> |
| A/S/M | A | All modes | <input type="checkbox"/> |
| | S | | |
| | M | , , | <input type="checkbox"/> |
| | | All modes (BKT: Only in P/A/S) | <input type="checkbox"/> |

!Note:

- In the following situations, sequential shooting (, , BKT) is not possible:
 - When the record mode is set to TIFF (P. 105) or when the SHQ record mode is set to ENLARGE SIZE (P. 109).
 - When NOISE REDUCTION is set to ON (P. 117).
- During sequential shooting (, , BKT), the flash does not fire.
- If there is not enough space available on the card for the number of frames you have set during auto bracketing, you cannot continue shooting.
- If self-timer shooting is attempted when the still picture shooting mode (, , , , , **P** , **A/S/M** ,) is set to sequential shooting, the camera shoots 5 frames automatically.
- If the ISO is set to over 200, noise may appear under some shooting conditions (P. 110).
- If the battery power is low and the battery check blinks during sequential shooting, shooting stops and the camera starts saving the pictures you have taken. Whether or not all of the shots are saved depends on how much battery power remains.
- Since the shutter speed is set to 1/30 sec. max., exposure is decreased when shooting a dark subject to prevent camera movement.

Recording sound with still pictures

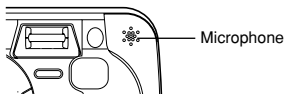
Sound can be recorded when taking still pictures. Recording starts about 0.5 seconds after the shutter is released. Total possible recording time per shot is approximately 4 seconds. When this function is on, sound is recorded every time you take a picture.



1 In the top menu, select **MODE MENU** → **CAMERA** → → **ON**.

2 Press the shutter button. When recording starts, turn the camera microphone towards the subject you want to record.

- The sound recording screen appears.




Factory default setting: OFF

Note:

- If the camera is more than 1 meter (3.3ft) away from the subject, sound cannot be recorded clearly.
- It is not possible to take another picture during sound recording.
- Sound recording is not possible if:
 - the TIFF record mode is on. (However, sound can be added later to a picture recorded in TIFF.) (P. 132)
 - the drive mode is set to sequential shooting (, , BKT).
- Sound recording may also pick up camera noises (e.g. buttons clicking, shutter movement, etc.).
- Also read "TIPS" on the next page.

Recording sound with movies

Sound can be recorded while shooting a movie. When  is ON, Optical zoom during shooting is not available.



1 In the top menu, select **MODE MENU** → **CAMERA** →  → **ON**.

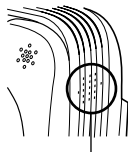
2 Shoot.

Factory default setting: OFF




TIPS

- During playback, sound is output from the speaker (P. 131).
- Sound can be added later to still pictures (P. 132).
Recorded sound can also be changed.



Speaker

Note:

- During movie recording, you can only use the digital zoom. If  is set to OFF, you can use both the optical zoom and digital zoom during movie recording. (P. 82)

You can take advantage of panorama shooting with Olympus CAMEDIA-brand SmartMedia cards. (Non-Olympus cards do not support this feature.) Panorama shooting lets you connect images with overlapping edges into a single panoramic image, using the provided CAMEDIA Master software.

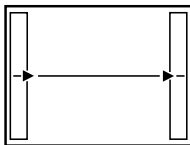


1 In the top menu, select **MODE MENU** → **CAMERA** → **PANORAMA**.

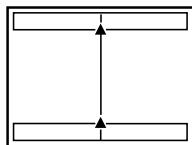
2 Press \triangleright .
• The PANORAMA mode is set.

3 Press the arrow pad to choose at which edge (top/bottom/right/left) you want to connect images.
• The direction is displayed.

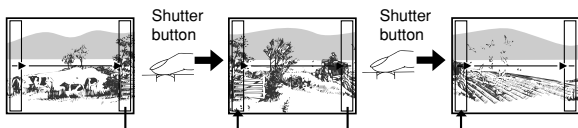
Connects a series of pictures from left to right.



Connects a series of pictures from bottom to top.



4 Make sure that the edges of images overlap, then take your pictures.
• Focus, exposure and white balance are set by the first picture. Do not select an extremely bright subject (such as the sun) for the first picture.
• Do not adjust the zoom after the first picture. Pictures with differently sized images cannot be connected.
• Panorama shooting is possible for up to 10 pictures.



Take pictures so that their edges (right/left/top/bottom) overlap.

Panorama shooting (Cont.)

5 Press to finish panorama shooting.

- Frames on the edges of the screen disappear, and the camera returns to the normal shooting mode.

Note:

- During panorama shooting, the flash is disabled.
- The Panorama mode is only available with the OLYMPUS CAMEDIA-brand SmartMedia cards.
- The camera itself cannot edit panorama pictures. To connect each picture, the CAMEDIA Master software is necessary.
- Your computer's memory may be insufficient if you take too many panorama pictures in the HQ/SHQ modes.
- Images are saved in JPEG format when panorama shooting is done in the TIFF mode. The size of the image does not change.
- If the mode dial is moved during panorama shooting, the camera cancels the panorama mode and returns to normal shooting.

FUNCTION — Taking black & white or sepia-toned pictures

Lets you add special effect to your pictures during shooting. 4 effects are available.

BLACK&WHITE : Takes pictures in black and white.

SEPIA : Gives pictures a sepia tone.

WHITE BOARD : Pictures are in black and white, with black letters on white backgrounds emphasized to make them easier to read.

BLACK BOARD : Same as WHITE BOARD, but for white letters on black backgrounds. Reverses blacks and whites in the image.



In the top menu, select **MODE MENU** → **CAMERA** → **FUNCTION** → Select a mode.

Modes & Function shooting

| Mode | Function shooting | Factory default setting |
|----------------|----------------------|-------------------------|
| P A/S/M | All modes | OFF |
| | BLACK & WHITE, SEPIA | OFF |

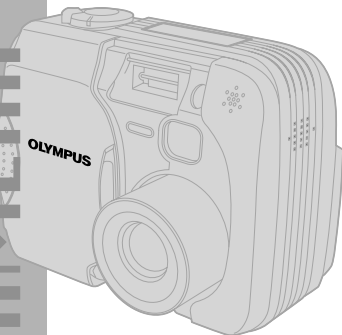


TIPS

- If letters do not show clearly with **WHITE BOARD** or **BLACK BOARD**
→ Use exposure compensation (P. 111).

Note:

- When **WHITE/BLACK BOARD** is selected, the flash is automatically set to off (flash override mode) (P. 85).
- **WB** (white balance), **WBZ** (white balance compensation) and **SATURATION** cannot be used in Function shooting.



Chapter 6

Adjusting image quality and exposure

Selecting Record Modes

Choose the best record mode for your purposes (printing, editing on a computer, web-site editing, etc.). To see how large SmartMedia memory capacity is under various conditions (such as different resolutions, compressions, or file formats), refer to the table on page 106. The numbers in the table are approximate.

| Record mode | Description | Quality | File size |
|-------------|--|------------|-----------|
| TIFF | The highest-quality mode. Images are saved as uncompressed data, which is the best for printing or image-processing on a computer. This mode has different resolutions to choose from, depending on how it is used. | More clear | Larger |
| SHQ | A high quality mode using the JPEG format. Because the compression rate is very low, high quality images can be stored. In addition, you can increase the resolution with the Enlarge Size function. This is useful when printing on large paper such as A3 (11" x 14"/28 cm x 36 cm). | | |
| HQ | A high quality mode using the JPEG format, with medium compression. Because the compression rate is higher than SHQ, file sizes are smaller, so more images can be saved to a card. Like SHQ, resolution can be increased by using the Enlarge Size function. | | |
| SQ1 SQ2 | The most compressed modes. For each one, you can also choose HIGH (to reduce noise) or NORMAL (to save more images). Select the best settings for your purpose (printing, Internet pages, etc.). | Normal | Smaller |

Record Mode (Cont.)

Still Picture Record Modes

The memory capacity listed here is approximate.

| Record mode | Resolution | | Compression | File format | Memory capacity in # of shots (without sound/with sound) | |
|-------------|--------------------------|-----------|-----------------|-------------|---|---------|
| | | | | | 16MB | 32MB |
| TIFF | 2272x1704 | | Uncompressed | TIFF | 1/ – | 2/– |
| | 2048x1536 | | | | 1/– | 3/– |
| | 1600x1200 | | | | 2/– | 5/– |
| | 1280x960 | | | | 4/– | 8/– |
| | 1024x768 | | | | 6/– | 13/– |
| | 640x480 | | | | 16/– | 33/– |
| SHQ | 2288x1712 | | Low compression | JPEG | 5/5 | 11/11 |
| | ENLARGE SIZE (P. 109) | 3200x2400 | | | 2/2 | 5/5 |
| | | 2816x2112 | | | 3/3 | 7/7 |
| | | 2560x1920 | | | 4/4 | 9/9 |
| HQ | | 2272x1704 | | | Normal | 16/15 |
| | ENLARGE SIZE (P. 109) | 3200x2400 | 8/8 | | | 16/16 |
| | | 2816x2112 | 10/10 | | | 21/21 |
| | | 2560x1920 | 13/12 | | | 26/25 |
| SQ1 | 2048x1536 | HIGH | * | | 7/7 | 14/14 |
| | | NORMAL | | | 20/19 | 40/39 |
| | 1600x1200 | HIGH | | | 11/11 | 23/22 |
| | | NORMAL | | | 32/30 | 64/60 |
| | 1280x960 | HIGH | | | 18/17 | 36/34 |
| | | NORMAL | | | 49/45 | 99/90 |
| SQ2 | 1024x768 | HIGH | | | 27/26 | 55/52 |
| | | NORMAL | | | 76/66 | 153/132 |
| | 640x480 | HIGH | | | 66/58 | 132/117 |
| | | NORMAL | | | 165/124 | 331/248 |

*HIGH uses low compression/NORMAL uses normal compression

Movie Record Modes

Memory capacity in sec. per movie

| Record mode | Resolution | 8MB | | 16MB over | |
|-------------|--------------------------|---------------|------------|---------------|------------|
| | | Without sound | With sound | Without sound | With sound |
| HQ | 320x240 (15 frames/sec.) | 24 | 23 | 33 | 32 |
| SQ | 160x120 (15 frames/sec.) | 105 | 93 | 148 | 130 |

Record Mode (Cont.)



1 In the top menu, select → SHQ, HQ, SQ1 or SQ2.

- Resolution cannot be selected in these record modes.
SQ1: 1280 x 960 NORMAL, SQ2: 640 x 480 NORMAL



1 P A/S/M : In the top menu, select MODE MENU → PICTURE → , then press .

: Select in the top menu.

2 Press to select the desired record mode (refer to the table on the previous page), then press .

: Press to select HQ or SQ, then go to step 4.

3 Press to select the resolution (refer to the table on the previous page).

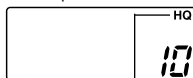
- When ENLARGE SIZE is chosen, press to select the resolution.
- When SQ1 or SQ2 is chosen, HIGH or NORMAL can be selected in addition to the resolution.

Record Mode (Cont.)

4 Press to save the setting.

- The screen returns to the record mode setting screen.
- The record mode you set is displayed on the control panel.
- If SHQ or HQ is set to ENLARGE SIZE, the corresponding indication blinks.

Control panel



Record mode

Factory default setting: HQ



TIPS

• Resolution

The number of pixels (vertical x horizontal) used when saving an image. If the image will be printed, higher resolutions (larger numbers) are recommended so that the image will be clearer. However, higher resolutions make the file size (amount of data) larger, so the number of pictures that can be saved to a card will be fewer.

• Resolution and picture size on a computer screen

When a picture is transferred to a computer, the size of the picture on the computer screen varies depending on the computer's monitor setting. For instance, a picture taken in 640x480 resolution is the same size as the screen if you set the picture to 1x when the monitor setting is 640x480. However, if the monitor setting is over 640x480 (such as 1024x768), the picture only takes up part of the screen.

• Compression rate

In record modes other than TIFF, image data are compressed. The higher the compression rate, the less clear the image.

• File format (P. 105)


This camera saves images with either TIFF or JPEG formats. In record modes other than TIFF, images are compressed in the JPEG format. The compression rate also varies in each mode (sound with still pictures: WAV format, movies: MOV format).

Record Mode (Cont.)


Note:

- SmartMedia memory capacity listed in the table is approximate.
- The number of storable images differs depending on the Record mode, the card's memory size, the Preset print or the Sound recording.
- Areas using PAL (P.199) → If movie pictures are shot with the video cable connected, their maximum recording time may be different from the table on page 106.

ENLARGE SIZE

When ENLARGE SIZE is selected (only possible in HQ or SHQ), the actual 4 million pixels used by this camera can be increased as if they were approx. 5 (2560 x 1920), approx. 6 (2816 x 2112) or approx. 8 (3200 x 2400) million pixels. This allows you to make quality prints in larger sizes, such as A3 (11" x 14"/28 cm x 36 cm). However, file sizes also become larger. ENLARGE SIZE is not available in the  (movie) mode.

Note:

- If the SHQ record mode is set to ENLARGE SIZE, sequential shooting (,  , BKT) is not possible.

ISO Sensitivity

The higher the ISO value, the greater the camera's light sensitivity and the better its ability to shoot in low-light conditions. However, higher values also produce more "noise" in the resulting images.



In the top menu, select **MODE MENU → CAMERA → ISO**.

There are 4 choices of ISO: AUTO, 100, 200, or 400. Choose the best one for your shooting conditions.

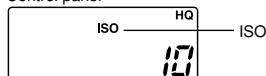
AUTO : Sensitivity is automatically adjusted according to the lighting conditions and the subject brightness.

100/200/400 : 100 is best when you want to shoot clear, sharp images in daylight. With a higher ISO setting, you can use faster shutter speeds with the same amount of light.

Modes & ISO Sensitivity

| Mode | ISO sensitivity | Factory default setting |
|--------------|--------------------|-------------------------|
| P | All modes | AUTO |
| A/S/M | 100/200/400 | 100 |
| | P: All modes | AUTO |
| | A/S/M: 100/200/400 | 100 |
| | All modes | AUTO |

Control panel



Note:

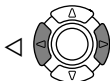
- Higher ISO can produce more noise.
- ISO is standardized based on the sensitivity of normal camera film. The scale is approximate.
- When ISO is set to AUTO and you are shooting in dark conditions without a flash, ISO automatically increases; otherwise the shutter speed will be reduced, possibly resulting in camera movement and blurred images.
- If a subject is too far away for the flash illumination to reach it when the ISO is set to 100, the ISO is automatically increased.
- When using slow synchronization in the P, S or A mode, the slowest available shutter speed varies depending on the ISO setting.

Exposure Compensation

This function allows you to make fine changes to the present exposure setting. In some situations, you may get better results when the exposure that the camera sets is compensated (adjusted) manually. You can adjust between ± 2.0 in $1/2$ steps. When the setting is changed, you can check the result on the monitor.



Adjusts towards –
(images become darker)



Adjusts towards +
(images become brighter)



– 2.0



0.0

(Factory default setting)

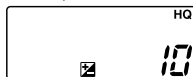


+ 2.0

Modes & Exposure Compensation

| Mode | | Exposure compensation |
|--------------|-----|---------------------------|
| P | | Available |
| A/S/M | A/S | Available |
| | M | — |
| | | Available (Only in P/A/S) |
| | | Available |

Control panel



Exposure compensation



TIPS

- Often, white objects (such as snow) will turn out darker than their natural colors. Adjusting towards + makes these objects closer to their real shades. For the same reason, adjust towards – when shooting black objects.

White Balance

Color reproduction differs depending on the lighting conditions. For instance, when daylight, the setting sun, or indoor lighting are reflected on white paper, the shade of white produced will be slightly different for each. By setting the WB (white balance), you can achieve more natural-looking color.



P A/S/M : In the top menu, select **MODE MENU** → **PICTURE** → **WB**, then select the best WB (**AUTO**, **PRESET**,) for your shooting conditions.

: In the top menu, select **WB** → **AUTO**, **PRESET** or .

AUTO (auto white balance)

Automatically adjusts the white balance for any light source.

PRESET (preset white balance)

Choose from four white balance settings depending on the type of light:

:Sunlight

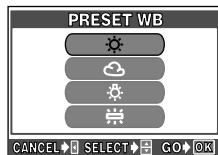
:Overcast

:Tungsten

:Fluorescent

You can also preview different color tones by trying the different PRESET WB settings under the actual light source, and checking the result on the monitor.

PRESET WB screen



(One-Touch white balance)

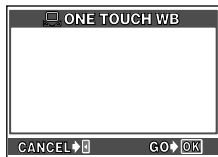
This function is useful when you need more precise white balance than PRESET WB can give. To set the proper white balance for the shooting conditions, point the camera at a white object under the light source you want to use and adjust the white balance.

White Balance (Cont.)

- 1** Select as shown on the previous page.

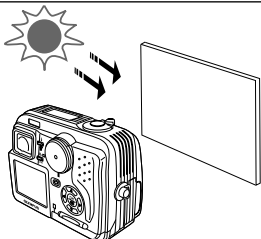
- The ONE TOUCH WB screen appears.

ONE TOUCH WB screen



- 2** Point the camera at a sheet of white paper.

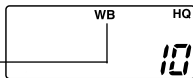
- Position the paper so that it fills the screen entirely. Be sure there is no shadow or background showing around the paper.



- 3** Press to store the new white balance setting.

- To cancel ONE TOUCH WB, press .

Control panel



White balance

When white balance is set to AUTO, this does not appear.

- 4** Press repeatedly until the menu disappears.

Factory default setting: AUTO

Note:

- Set white balance to AUTO for normal shooting.
- When setting the white balance by pointing the camera at white paper, the setting may be incorrect if the light reflected by the paper is too bright or dark.
- White balance may not be effective under some special light sources.
- After setting the white balance, playback the image and check the color on the monitor.

White Balance (Cont.)

White Balance Adjustment

This function allows you to make fine changes to the white balance.



In the top menu, select **MODE MENU** → **PICTURE** → **WB**. Press **▷**.

The white balance adjustment indicator appears on the screen.

The color becomes bluer each time you press **△**, and redder each time you press **▽**, depending on the original white balance conditions. Press **Ⓢ** to save your adjustment.

White balance can be adjusted between +7 and -7.

Factory default setting: ±0



White balance adjustment indicator

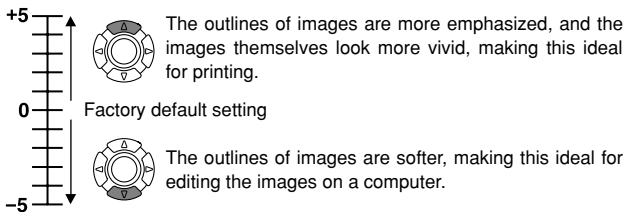
Sharpness

This function adjusts the sharpness of images.



In the top menu, select **MODE MENU** → **PICTURE** → **SHARPNESS**. Press \triangleright .

Sharpness can be adjusted between +5 and -5 using \triangle ∇ .



Note:

- When adjusted too much towards +, noise may appear.

Contrast

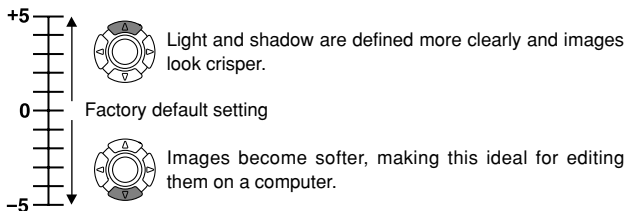
This function adjusts the contrast of images.

For example, images with strong differences in light and shadow can become milder, while those with weaker differences can become more vivid.



In the top menu, select **MODE MENU** → **PICTURE** → **CONTRAST**. Press \blacktriangleright .

Contrast can be adjusted between +5 and -5 using Δ ∇ .



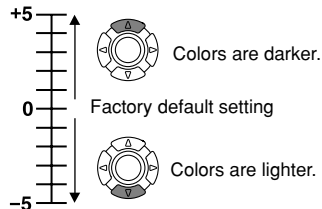
Saturation

This function adjusts the color depth level.



In the top menu, select **MODE MENU** → **PICTURE** → **SATURATION**. Press \blacktriangleright .

Saturation can be adjusted between +5 and -5 using Δ ∇ .



Noise Reduction

This function reduces the noise that appears on images during long exposures. When shooting night scenes, shutter speeds become slower and noise tends to appear on images. When noise reduction is set to ON, the camera automatically reduces noise to produce clearer images. However, shooting time is approximately twice as long as usual.

Noise reduction can only be used when the shutter speed is set slower than 1 sec.



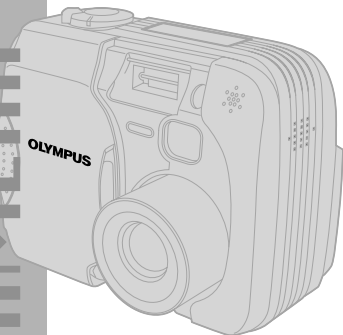
In the top menu, select **MODE MENU** → **CAMERA** → **NOISE REDUCTION** → **ON**.

Modes & Noise reduction

| Mode | | Noise reduction | Factory default setting |
|--------------|---|-----------------------|-------------------------|
| | | Always set to ON | ON |
| A/S/M | A | — | — |
| | S | | |
| | M | Available | OFF |
| | | Available (Only in M) | OFF |

Note:

- When you set noise reduction to ON, shooting time is approximately twice as long as usual, because the camera needs extra time to finish the noise-reduction process. During this time, shooting the next picture is not possible.
- When NOISE REDUCTION is ON, sequential shooting (, ,) is not possible.
- This function may not work well with some shooting conditions or subjects.
- Since the shutter speed is slower when noise reduction is ON, we recommend that you use a tripod.



Chapter 7

Playback

This chapter explains how to play back still pictures or movies, and how to use the various functions available during playback.

Playing Back Still Pictures

Single-Frame Playback


Plays back one picture.



1 Press the (monitor) button with the lens barrier closed.

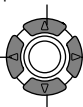
- The monitor turns on and displays the last picture taken.

2 Use the arrow pad to play back other pictures.

- The  mark is attached to pictures from movies. → See “Playing Back Movies” on page 121.

Jumps to the picture 10 frames behind.

Displays the previous picture.



Displays the next picture.

Jumps to the picture 10 frames ahead.

Quick View

This function lets you play back pictures while the camera is in the shooting mode. This is useful when you want to check shooting results quickly. Every picture and function available in playback mode is also available in Quick View.



1 Press (monitor button) twice quickly (double-click) while in the shooting mode.

- The monitor turns on and displays the last picture taken.
- To play back other pictures, use the arrow pad in the same way as single-frame playback.

2 To return to shooting, press the shutter button halfway.





TIPS

- When sound is attached to a picture, sound is output from the speaker (P. 131).

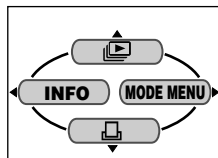
Slide-Show

This function displays pictures from the card one after another, as if you are watching a slide-show. Sound is also played back if it is attached to a picture. Movies are played back like still pictures, starting from the first frame.



- 1 Press the  (monitor) button with the lens barrier closed to display a still picture. Then, press  to display the top menu.


Playback top menu (still pictures)



- 2 Press  to start the slide-show.

- 3 Press  to stop the slide-show.

Note:

- The next picture is not displayed until the sound playback of the previous picture ends.
- Use of the AC adapter (optional) is recommended when running the slide-show for long periods of time. If batteries are being used, the camera will end the slide-show after about 30 minutes and enter sleep mode.
- The slide-show will not stop until you cancel it by pressing .

Playing Back Movies

— MOVIE PLAY

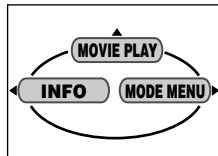
This function lets you play back or edit movies.



- 1 Press the (monitor) button with the lens barrier closed, and use the arrow pad to select a picture with .

- 2 Press to display the top menu.

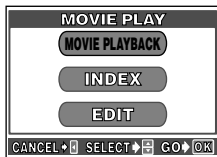
Playback top menu (movies)



- 3 Press . The card access lamp starts blinking and movie data in the card is sent to the camera (downloading).

- The MOVIE PLAY screen is displayed.

MOVIE PLAY screen



MOVIE PLAYBACK:

Plays back movies. →P. 122

INDEX:

Displays movies as indexes of 9 still frames.
→P. 123

EDIT:

Lets you edit movies. →P. 125

- 4 Select the item in the MOVIE PLAY screen that you need, then press



- See the following pages for how to use each item.

!Note:

- When playing back a movie, download time will vary depending on the length and record mode of the movie.

Playing Back Movies

— MOVIE PLAY (Cont.)

MOVIE PLAYBACK

Plays back movies.



1 Follow steps 1-3 on page 121.

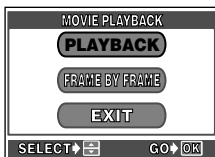
2 Press $\triangle \nabla$ to select **MOVIE PLAYBACK** on the **MOVIE PLAY** screen.

3 Press \odot to start playback.

- When movie playback ends, the display automatically returns to the beginning of the movie.

4 Press \odot .

- The **MOVIE PLAYBACK** screen is displayed.



PLAYBACK:

Plays back the entire movie again.

FRAME BY FRAME:

Plays back the movie manually.

EXIT:

Leaves the movie playback mode.

To play back other movie frames, exit the movie playback mode.

5 Press $\triangle \nabla$ to select items.

6 Press \odot to start your choice.

- When **FRAME BY FRAME** is selected, follow the instructions below.
- When **EXIT** is selected, the **MOVIE PLAY** screen appears. To exit, press \triangleleft .

■ Displaying movies using the arrow pad

\triangle : Displays the beginning of the movie.

∇ : Displays the end of the movie.

\triangleright : Every time you press the button, the next frame appears. The movie can be displayed continuously by holding the button down.

\triangleleft : Every time you press the button, the previous frame appears. The movie can be displayed continuously in reverse by holding the button down.

\odot : Displays the **MOVIE PLAYBACK** screen.

Playing Back Movies

— MOVIE PLAY (Cont.)

INDEX

Movies can be displayed as indexes of still frames. Indexes can be saved on the card as still pictures. Indexes are not stored in the same record mode as movies (see below).

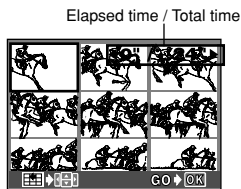
| Record mode when the movie is shot | Record mode when stored as an index |
|------------------------------------|-------------------------------------|
| HQ | SQ (1024x768/HIGH) |
| SQ | SQ (640x480/HIGH) |



1 Follow steps 1-3 on page 121.

2 Press Δ ∇ to select INDEX on the MOVIE PLAY screen.

- The first-frame selection screen appears.
- The card access lamp blinks during downloading.
- "[] CARD FULL" (P. 193) appears if there is not enough memory left on the card.



First-frame selection screen

3 Press \triangleleft \triangleright to select the first frame of the index, then press OK .

- After the first frame is selected, the selection frame moves to the last frame of the index.

■ Using the arrow pad

Δ : Jumps to the first frame of the movie.

∇ : Jumps to the last frame of the movie.

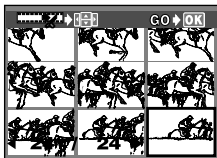
\triangleright : Each press of the button displays the next frame. Movies are played by holding the button down.

\triangleleft : Each press of the button displays the previous frame. Movies are played in reverse by holding the button down.

Playing Back Movies — MOVIE PLAY (Cont.)

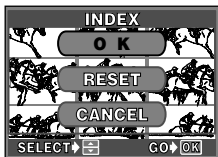
- 4** Select the last frame of the index using the arrow pad (See step 3).

Last-frame selection screen



- 5** Press .
- INDEX screen appears.

INDEX screen

**OK:**

Saves the index on the card. The menu disappears from the screen.

RESET:

Resets the index. Returns to the first-frame selection screen.

CANCEL:

Cancels the index. Returns to the MOVIE PLAY screen.

- 6** Press to select items.

- 7** Press to run your choice.

- When EXIT is selected, the MOVIE PLAY screen appears. To exit, press .

Note:

- INDEX is not available when the card is protected or when "CARD FULL" appears (indicating insufficient memory).

Playing Back Movies

— MOVIE PLAY (Cont.)

EDIT

This function allows you to edit movies by erasing parts you do not want.



1 Follow steps 1-3 on page 121.

2 Press $\triangle \nabla$ to select EDIT on the MOVIE PLAY screen.

- The first-frame selection screen appears.
- The card access lamp blinks during downloading.
- "[] CARD FULL" (P. 193) appears if there is not enough memory left on the card.

First-frame selection screen



3 Press $\triangle \triangleright$ to select the first frame of the movie, then press \odot .

- After the first frame is selected, the selection frame moves to the last frame of the movie.

■ Using the arrow pad

- \triangle : Jumps to the first frame of the movie.
- ∇ : Jumps to the last frame of the movie.
- \triangleright : Each press of the button displays the next frame. Movies are played by holding the button down.
- \triangleleft : Each press of the button displays the previous frame. Movies are played in reverse by holding the button down.

4 Select the last frame of the movie by using the arrow pad. (See step 3)

Last-frame selection screen



Playing Back Movies

— MOVIE PLAY (Cont.)

5 Press .

- EDIT screen appears.

EDIT screen



OK:

Selects NEW FILE or OVERWRITE.

- * NEW FILE saves the edited movie as a new movie with a different file name.
- * OVERWRITE saves the edited movie with the original file name. The original movie will be erased.

RESET:

Resets EDIT. Returns to the first-frame selection screen.





CANCEL:

Cancels EDIT. Returns to the MOVIE PLAY screen.




6 Press to select items.

7 Press to run your choice.

- When EXIT is selected, the MOVIE PLAY screen appears. To exit, press .
- When OK is selected, press   to select NEW FILE or OVERWRITE, then press . The movie is edited.

Note:

- EDIT is not available when the card is protected or when " CARD FULL" appears (indicating insufficient memory).
- NEW FILE is not available when the card does not have enough memory.

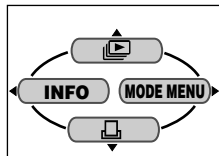
Displaying Shooting Information

This function lets you select how much shooting information is on the monitor in the playback mode. When it is set to OFF, only a small amount of information is displayed. For details on each piece of information displayed, see pages 19 and 20.




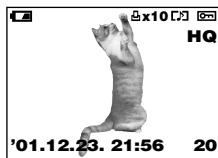
1 Press to display the top menu.

Playback top menu (still pictures)



2 Pressing turns INFO on and displays the full amount of shooting information on the monitor.

- To turn INFO off, bring up the top menu and press  again.



When INFO is OFF




When INFO is ON

Close-up Playback





Pictures displayed on the monitor can be enlarged. Each time you turn the zoom lever towards T, pictures are enlarged by 1.5, 2, 2.5, 3, 3.5 or 4 times.

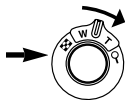


1 With the arrow pad, select the picture you want to enlarge.

- Pictures with the  mark cannot be enlarged.

2 Turn the zoom lever toward T (Q).

- When a picture is enlarged, / / /  are displayed. Press the arrow corresponding to the direction you want to view. The enlarged picture is shifted in the desired direction, allowing you to view a different portion of the image.



TIPS


• How to return the picture to the original size (1x)

→ Turn the zoom lever to W.

• How to display another picture

→ Turn the zoom lever to W to return to 1x, then select the desired picture by using the arrow pad.

This function lets you show many pictures at the same time on the monitor. It is useful for comparing your pictures and choosing the best ones. The number of pictures shown can be 4, 9, or 16 (see the next page).

In the single-frame playback mode (P. 119), press the zoom lever to W ().

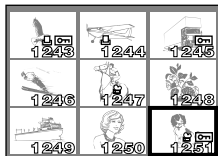
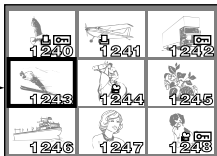
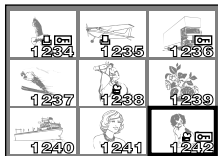


Index display (9-frame)



Pictures, including the one displayed in the single-frame playback mode, appear in the index display.

■ How to use the arrow pad during an index display



- ◀: Moves to the previous frame.
- ▶: Moves to the next frame.
- △: Jumps to the previous index display (the frames before the top left frame).
- ▽: Jumps to the next index display (the frames following the bottom right frame).

Index Display (Cont.)



TIPS

- **How to view a full-size picture from the index**
→ Select the picture with the arrow pad, then press the zoom lever toward T.

Selecting the Number of Pictures

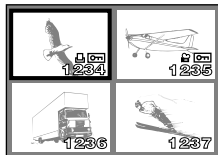
This function lets you change the number of pictures in an index display.



- 1 In the top menu, select **MODE MENU** → **SETUP** →

- 2 Choose the number of pictures (4, 9 or 16) and press

Index display (4-frame)



Adjusting playback sound volume

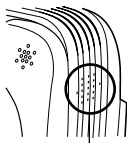
During playback, you can adjust the volume of the sound output from the speaker, as well as the volume of the sound selected in PW ON SETUP and PW OFF SETUP.



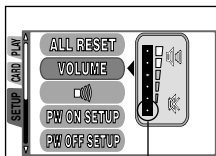
1 In the top menu, select **MODE MENU** → **SETUP** → **VOLUME**. Press .

- The sound volume indication appears.

2

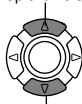


Speaker



If the volume is set to here, no sound is played back.

Turns up the volume.



Turns down the volume.

3 To complete setting, press .

Adding Sound

During playback, you can add sound to still pictures and change sound that has already been recorded. Adding sound takes approx. 4 seconds per picture.



1 Select a still picture to add sound to by using the arrow pad.

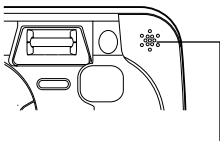
- Sound cannot be added to pictures with the mark.

2 In the top menu, select MODE MENU → PLAY → .

3 Press to display START.

4 Point the camera microphone towards the subject, then press to start recording.

- A bar is displayed to show the progress of recording.




Built-in microphone



Note:

- To obtain the optimum sound, the microphone should be placed no further than 1m (3.3 ft) away from the subject.
- When a new sound is recorded, the original sound is erased.
- function is not available when the card is protected or when " CARD FULL" appears (indicating there is no memory left).
- Sound may not be recorded when a card has insufficient memory.
- Sound recording may also pick up camera noises (e.g. buttons clicking, shutter movement, etc.).
- After being added, sound cannot be erased from pictures. However, you can replace the sound with silence by doing the above steps again while remaining quiet.

Pressing the  button in the playback mode protects pictures from being erased accidentally.



1 Display the picture you want to protect by using the arrow pad.


2 Press . The picture is now protected.

- To cancel protection, press  again.



Displayed when a picture is protected.

Note:

- Protected pictures cannot be deleted with the  ALL ERASE (all-frame erase) function, but they can be deleted with the  FORMAT (format) function.
- Protection cannot be applied to pictures stored on a card with a write-protect adhesive seal.
- Pictures cannot be protected while being played back on a TV.

Erasing Pictures

Recorded pictures can also be erased. This can be done either one frame at a time or to all the pictures in the card.

Note:

- It is not possible to erase protected pictures or pictures stored on a card that has a write-protect seal.
- Once erased, pictures cannot be restored.

Single-Frame Erase


This function only erases the picture displayed on the monitor. Erasing further pictures must be done one-by-one if using this function.

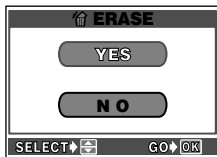


1 Select a picture you wish to erase by using the arrow pad.

- If the picture is protected, cancel the protection (P. 133).

2 Press the (erase) button.



- The  ERASE screen is displayed.



 ERASE screen

3 Press to select YES.

4 Press to erase the picture.

- To cancel erasing, select NO in step 3 and press , or press the  button again.

Erasing Pictures (Cont.)

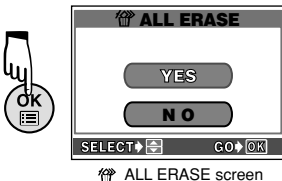
All-Frame Erase

This function erases all still pictures and movies in the card, except protected ones (P. 133).



- 1** In the top menu, select **MODE MENU** → **CARD** → **CARD SETUP** → **ALL ERASE**.

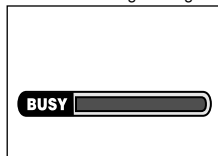
- 2** Press .
 - The **ALL ERASE** screen is displayed.



- 3** Press to select **YES**.

- 4** Press to start erasing.
 - A bar is displayed to show the progress of erasing.
 - To cancel erasing, select **NO** in step 3 and press .

Screen during erasing



Formatting Cards

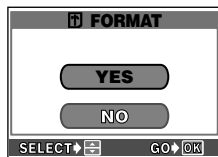
Cards can be formatted. Formatting prepares cards to receive data. Olympus CAMEDIA-brand cards are highly recommended. If you are going to use non-OLYMPUS cards or cards formatted by other devices such as a computer, you must format them with the camera before use. Cards can be formatted in all modes.



- 1** **AUTO** : In the top menu, select **CARD SETUP** → **FORMAT**.
Modes except AUTO : In the top menu, select **MODE MENU** → **CARD** → **CARD SETUP** → **FORMAT**.

- 2** Press .
 • The **FORMAT** screen is displayed.

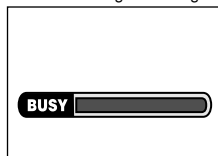
FORMAT screen



- 3** Press to select **YES**.

- 4** Press to start formatting.
 • A bar is displayed to show the progress of formatting.
 • To cancel formatting, select **NO** in step 3 and press .

Screen during formatting



Note:

- All existing data stored on the card is erased when the card is formatted. Make sure that you save or transfer important data before formatting a used card.
- Recording time may be longer with non-OLYMPUS cards and computer-formatted cards. In such cases, re-formatting with the camera is recommended.
- Cards with a write-protect seal cannot be formatted.

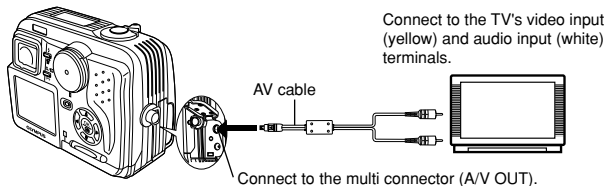
Playback on a TV


With the provided AV cable, recorded images and sound can be played back on a TV.



1 Make sure that the TV and camera power are off .

2 Connect the camera to the TV using the AV cable.



3 Press the  (monitor) button to turn on the camera and turn on the TV. Switch the TV to video input.

- For details on switching to video input, refer to your TV's instruction manual.

4 Select an image by using the arrow pad.

- The selected image will be displayed on the TV.



TIPS

- The optional AC adapter is recommended when using the camera with a TV.
- Images can be rotated only when they are played back on a TV. See the next page for details.
- Video signal is either NTSC or PAL compatible depending on the standard in the intended area of distribution.

Note:

- The camera monitor turns off automatically when the camera is connected to a TV.
- The image may appear off-center on the TV screen. This is due to the TV's adjustment settings.
- When images are compressed in order to fit the entire image on a TV screen, a black frame is placed in the blank parts of the screen around the image. If the image is output to a video printer via the TV, the black frame may be printed out.

Playback on a TV (Cont.)

Picture Rotation

There may be times when you want to rotate a picture. For example, pictures taken with the camera held vertically are also oriented vertically (i.e. longer vertically than horizontally). With picture rotation, you can turn them horizontally, 90 degrees clockwise, or counter-clockwise.

Pictures can be rotated only when they are played back on a TV.



- 1 Display a vertically oriented picture in the single-frame playback mode (P. 119).




Normal playback of a vertically oriented picture

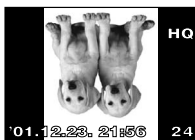


Picture rotated 90° counter-clockwise from normal playback position



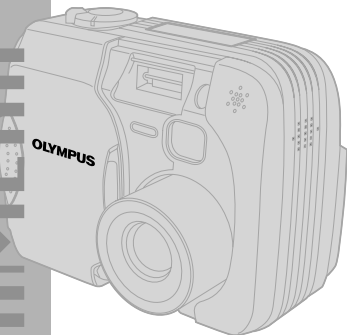
Picture rotated 90° clockwise from normal playback position

- 2 Each time the  button is pressed, the picture is rotated as shown.



Note:

- Movie pictures cannot be rotated.
- New picture positions are saved even when the power is turned off.
- Close-up playback is possible after pictures are rotated. However, pictures cannot be rotated while in close-up playback (P. 128).
- The following pictures cannot be rotated:
Protected pictures; Pictures in a card with a write-protect seal; Pictures taken with other cameras.



Chapter 8

Useful Functions

This chapter explains various useful camera functions. Also see “Using the Menu” in Chapter 3.

MY MODE SETUP

Your favorite settings can be saved in MY MODE SETUP. When the mode dial is set to **My**, the customized settings are activated. When the camera is in the P or A/S/M mode, you can also save some of the settings you are using in MY MODE SETUP.

The settings affected by MY MODE SETUP are listed on P. 142.



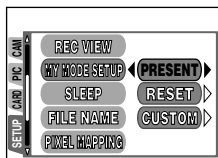
- 1** In the top menu, select **MODE MENU** → **SETUP** → **MY MODE SETUP**. Press **▷**.

- 2** Press **△▽** to select the item you want (see below), then press **▷**.

PRESENT : Saves the settings you are using now. Go to step 3.

RESET : Restores the factory default settings. Go to step 3.

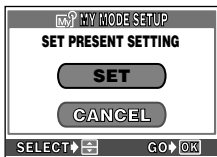
CUSTOM : Saves settings one by one. Go to step 4.



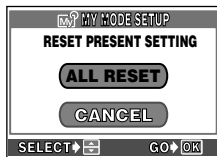
- 3** Set **PRESENT** or **RESET** on each **MY MODE SETUP** screen. After selecting the setting, press **OK**. Go to step 7.

- To cancel the setting, select **CANCEL**.

When **PRESENT** is selected:
Select **SET**.



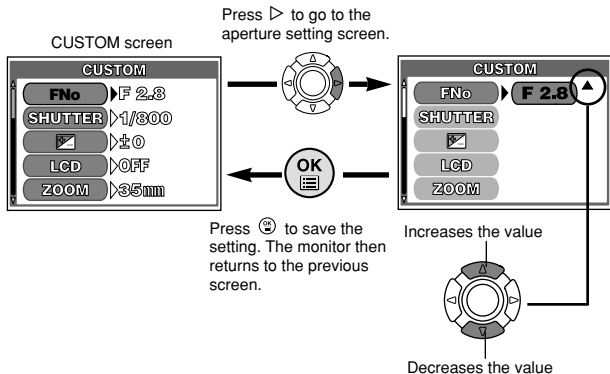
When **RESET** is selected:
Select **ALL RESET**.



- 4** Set **CUSTOM** on the **CUSTOM** screen. Press $\Delta \nabla$ to select the functions you want, then press \triangleright .

- 5** Select the setting within the function by using $\Delta \nabla$, then press OK .
 - Repeat Steps 4 and 5 to change other functions.

Ex: When setting the aperture on the CUSTOM screen.



- 6** When you have made all the settings you want, press OK to exit from the **CUSTOM** screen. Custom registration is complete.
 - The menu displayed in step 2 appears.








- 7** Press OK to exit from the menu.




Note:


- When you save settings in **PRESENT**, the saved zoom position may differ from the zoom position you are using. The zoom position is set to one of the four zoom positions included in **ZOOM** (function included in **CUSTOM**). The value closest to the current zoom position will be selected.
- In the **MV** mode, the monitor always turns on, regardless of the **P/A/S/M** mode setting.

MY MODE SETUP (Cont.)

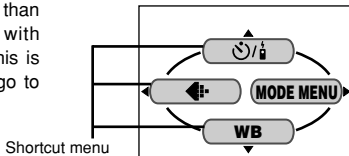
Available Items and Factory Default Settings

| Setting | Factory default setting |
|--|---|
| FNo (P. 65) | F2.8 |
| SHUTTER (P. 66) | 1/750 |
|  (P. 111) | ±0 |
| ZOOM* | 35mm |
| FLASH MODE (P. 87) | AUTO |
|  (P. 91) | OFF |
| AF/MF (P. 73) | AF |
|  (P. 93, 94) | OFF |
| DRIVE (P. 96) |  |
| ISO (P. 110) | AUTO |
| P/A/S/M (P. 65 – 68) | P |
|  (P. 89) | ±0 |
|  SLOW (P. 86) |  SLOW1 |

| Setting | Factory default setting |
|---|-------------------------|
| NOISE REDUCTION (P. 117) | OFF |
| DIGITAL ZOOM (P. 82) | OFF |
| FULLTIME AF (P. 72) | OFF |
|  (for still pictures) (P. 99) | OFF |
| FUNCTION (P. 103) | OFF |
|  (for still pictures) (P. 106) | HQ |
| WB (P. 112) | AUTO |
|  (P. 114) | ±0 |
| SHARPNESS (P. 115) | ±0 |
| CONTRAST (P. 116) | ±0 |
| SATURATION (P. 116) | ±0 |

* In the  mode, available zoom positions are 35mm/50mm/70mm/98mm (these numbers are based on a 35 mm camera).

Functions on the top menu other than MODE MENU can be replaced with those listed in the table below. This is useful when you want to quickly go to frequently-used functions.



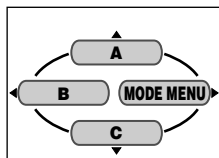
Available Menu Items

| Items | Settings |
|-------------------------------|---|
| (P. 93, 94) | OFF, , |
| DRIVE (P. 96) | (Single-frame), (Sequential), AF (AF Sequential), BKT |
| ISO (P. 110) | AUTO, 100, 200, 400 |
| P/A/S/M (P. 65 – 68) | P, A, S, M |
| (P. 89) | +2 - ± 0 - -2 |
| SLOW (P. 86) | SLOW1, SLOW, SLOW2 |
| NOISE REDUCTION (P. 117) | OFF, ON |
| DIGITAL ZOOM (P. 82) | OFF, ON |
| FULLTIME AF (P. 72) | OFF, ON |
| (for still pictures) (P. 99) | OFF, ON |
| PANORAMA (P. 101) | – |
| FUNCTION (P. 103) | OFF, BLACK&WHITE, SEPIA, WHITE BOARD, BLACK BOARD |
| (for still pictures) (P. 106) | TIFF, SHQ, HQ, SQ1, SQ2 |
| WB (P. 112) | AUTO, PRESET, (One-Touch) |
| (P. 114) | BLUE - ± 0 - RED |
| SHARPNESS (P. 115) | +5 - ± 0 - -5 |
| CONTRAST (P. 116) | +5 - ± 0 - -5 |
| SATURATION (P. 116) | +5 - ± 0 - -5 |

Shortcut (Cont.)

Setting the Shortcut Menu

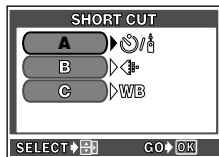
Assign settings to the A, B and C positions on the top menu.



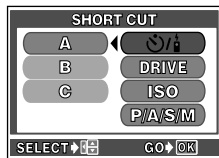
- 1** In the top menu, select **MODE MENU** → **SETUP** → **SHORT CUT**. Press \triangleright .

- The **SHORT CUT** screen appears.
- The A, B, and C positions on the monitor are the same as top, left, and bottom on the top menu.

SHORT CUT screen



- 2** Select A, then press \triangleright to display the menu functions on page 143.



- 3** Select the item you want by pressing $\triangle \nabla$, then press \odot to save your setting.

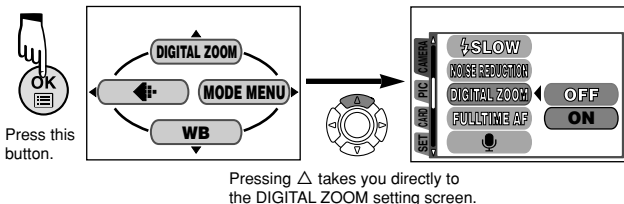
- Repeat Steps 2 and 3 to set B and C.

Using the Shortcut Menu



- 1 Press to display the top menu.
 - The shortcut menu you set before is shown on the top menu.
- 2 Press the arrow pad according to the arrow (▲◀▼) shown next to each item.
 - The monitor jumps directly to the setting screen of that item.

Ex: When DIGITAL ZOOM is set to the A shortcut.



Factory default setting: A:

B:

C: WB

Note:

- The shortcut menu can be set separately for **P**, **A/S/M** or .


All Reset

This function lets you choose whether or not the camera saves its current settings.

OFF: The settings made just before the power is turned off are saved.

ON: All settings are returned to the factory default settings.

The settings affected by All Reset are listed on P. 147.

The ALL RESET setting (ON/OFF) applies to all the modes. If ALL RESET is set to OFF in one shooting mode, this setting applies to all other shooting modes, as well as the playback and  modes.

ALL RESET cannot be set in the **AUTO** mode. Whatever All Reset setting has been selected in a mode that allows ALL RESET setting will be applied in the **AUTO** mode.

When ALL RESET is set to OFF, the OFF setting does not apply to functions (**AUTO** : setting flash mode, drive mode, etc.) that are not available in the current mode.








All Reset does not affect the menu's SETUP items.







In the top menu, select **MODE MENU** → **SETUP** → **ALL RESET** → **ON** or **OFF**.

Factory default setting: ON

Items that All Reset affects

| Setting | Factory default setting |
|--|---|
| FNo (P. 65) | F2.8 |
| SHUTTER (P. 66) | 1/800 |
|  (P. 111) | ±0 |
| LCD* | OFF |
| ZOOM | 35mm |
| FLASH MODE (P. 87) | AUTO |
|  (P. 91) | OFF |
| AF/MF (P. 73) | AF |
|  (P. 93, 94) | OFF |
| DRIVE (P. 96) |  |
| ISO (P. 110) | AUTO |
| P/A/S/M (P. 65 – 68) | P |
|  (P. 89) | ±0 |
|  SLOW (P. 86) |  SLOW1 |

| Setting | Factory default setting |
|---|-------------------------|
| NOISE REDUCTION (P. 117) | OFF |
| DIGITAL ZOOM (P. 82) | OFF |
| FULLTIME AF (P. 72) | OFF |
|  (for still pictures) (P. 99) | OFF |
| FUNCTION (P. 103) | OFF |
|  (for still pictures) (P. 106) | HQ |
| WB (P. 112) | AUTO |
|  (P. 114) | ±0 |
| SHARPNESS (P. 115) | ±0 |
| CONTRAST (P. 116) | ±0 |
| SATURATION (P. 116) | ±0 |

* This sets the monitor's ON/OFF when the camera is turned on. The monitor may not turn with some camera settings. In this case, press  to turn on the monitor.

Beep

You can set the volume of the beep used for button operations or warnings to OFF, LOW or HIGH. The factory default setting is LOW, but you can turn the beep completely off if you don't want it.



In the top menu, select **MODE MENU** → **SETUP** → **BEEP** → **OFF, LOW** or **HIGH**.

Factory default setting: LOW

Note: _____

- In the **AUTO** mode, this function's setting is the same as that selected in the other shooting modes.

Shutter sound effect

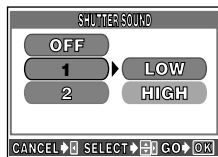
It is possible to select the type of shutter sound effect and the shutter sound volume. Sound volume cannot be set unless a shutter sound effect type is selected.



1 In the top menu, select **MODE MENU** → **SETUP** → **SHUTTER SOUND**. Press \triangleright .

- The SHUTTER SOUND screen appears.

2 Press \triangle/∇ to select **OFF**, **“1”** or **“2”** (shutter sound effect type).
If you select **“1”** or **“2”**, go to Step 3. If you select **OFF**, go to Step 4.



3 Press \triangleright . Press \triangle/∇ to select **LOW** or **HIGH** (volume).

- The SHUTTER SOUND screen appears.

4 Press \odot .

Factory default setting: 1/LOW

Note:

- In the **AUTO** mode, this function's setting is the same as that selected in the other shooting modes.

Power on/off display setting

You can select a picture and/or sound to display/output when the power is turned on/off. It is also possible to register your favorite picture for display when the power is turned on/off (P. 151). To select the already registered picture, select "2" in SCREEN. The sound volume is the same level as selected in the VOLUME setting (P. 131).

PW ON SETUP: Selects the picture and/or sound that will be displayed/output when the power is turned on.

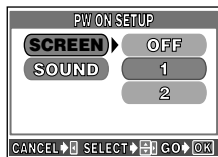
PW OFF SETUP: Selects the picture and/or sound that will be displayed/output when the power is turned off.



- 1 In the top menu, select **MODE MENU** → **SETUP** → **PW ON (PW OFF) SETUP**. Press \triangleright .
 - The PW ON (PW OFF) SETUP screen appears.

- 2 Press $\triangle \nabla$ to select **SCREEN** or **SOUND**, then press \triangleright .

- 3 Press $\triangle \nabla$ to select **OFF**, "1" or "2", then press \odot .



SCREEN

OFF : There is no picture.

1 : Factory default setting

2 : Selects the already registered picture. If "2" is selected, but there is no picture registered, the monitor will show a blue screen. Once a picture has been registered, the monitor will display the registered picture and not the blue screen.

SOUND

OFF : There is no startup/shutdown sound.

1 : Factory default setting

2 : Another sound type

Note:

- In the **AUTO** mode, this function's setting is the same as that selected in the other shooting modes.
- If the battery check indication appears when the power is turned off, the shutdown image may not appear.

Screen setup

You can register your favorite picture for display when the power is turned on/off. For more information on this function, refer to “Power on/off display setting” (P. 150).



1 Play back a picture.

In the top menu, select **MODE MENU** → **SETUP** → **SCREEN SETUP**. Press \triangleright .

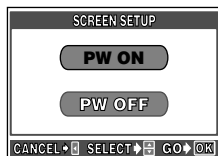
- The SCREEN SETUP screen appears.

2 Press \triangle ∇ to select either of the following items:

To register a picture for power on, select **PW ON**.

To register a picture for power off, select **PW OFF**.

- If a picture is already registered, the IMAGE EXISTING screen is displayed which asks you if you want to cancel the currently registered picture and register a new one. If **KEEP** is selected, the screen returns to the initial PW ON/OFF selection screen.



3 Select a picture using single-frame playback (P. 119) or index display (P. 129). Press \odot .

- The SCREEN SETUP screen appears and asks if you are sure you want to register a picture.

4 Press \triangle ∇ to select **OK**, then press \odot .

- The picture has been registered. When registration is complete, the screen returns to the PW ON/OFF selection screen displayed in Step 2.

5 To exit from the SCREEN SETUP screen, press \triangleleft .

!Note:

- It is not possible to register pictures that cannot be played back on this camera. No movie frames can be played back.

Rec View

You can choose if the image being recorded is displayed on the monitor during shooting.

■ ON

The image being recorded onto the card is displayed on the monitor. This is useful for a brief check of images you have just taken. Pressing the shutter button halfway at any time displays the image the camera is currently aimed at.

■ OFF







The image being recorded onto the card is not displayed. If you shoot while using the monitor, the subject the camera is pointing at will be displayed. This is useful when you want to prepare your next shot while the previous image is being recorded.



In the top menu, select **MODE MENU** → **SETUP** → **REC VIEW** → **ON** or **OFF**.

Factory default setting: ON

!Note:

- If you shoot with the monitor off and battery power is too low. Rec View is not available.
- In the **AUTO**, , , , ,  or  mode, Rec View is always ON.

Sleep timer







The camera automatically enters the power saving mode if the time you have set has passed with no operations being performed.



In the top menu, select **MODE MENU** → **SETUP** → **SLEEP**, then select a setting from the following: 30SEC, 1MIN, 3MIN, 5MIN or 10MIN

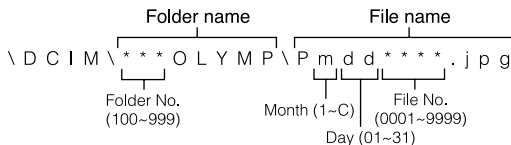
Factory default setting: 3MIN

Note:

- In the **AUTO**, , , , ,  or  mode, this function's setting is the same as that selected in the other shooting modes.
- The sleep timer can only be changed in the shooting mode. In the playback mode, the sleep timer is always set at 3 minutes.
- Sleep does not work when using the AC adapter.
- If a slide-show lasts more than 30 minutes, the camera automatically enters the sleep mode.

File name

The camera automatically creates file names and folder names for images to be stored in. Files can be numbered from 0001 to 9999 and folders can be numbered from 100 to 999. Examples are shown below.



- Month: Jan. - Sep. = 1 - 9, Oct. = A, Nov. = B, Dec. = C

There are two choices here: RESET or AUTO. Choose the one that is best for you when transferring images to a computer.

■ RESET

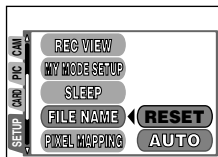
When RESET is selected, the file number and folder number are reset every time a new card is inserted in the camera. The folder number returns to No. 100, and the file number returns to No. 0001. This is useful when grouping files on separate cards.

■ AUTO

When AUTO is selected, the same folder number is retained, but the file number continues from the previous card, so that the same file number is not used on different cards. This helps you to manage multiple cards. This is useful when a group of files stretches over more than one card.



- 1** In the top menu, select **MODE MENU**
→ **SETUP** → **FILE NAME**.



- 2** Select **RESET** or **AUTO**, then press .

Factory default setting: **RESET**



TIPS







- **When the File No. reaches 9999...**

The file number returns to 0001, and the folder number changes, for example, from No. 100 to No. 101.

- **When the both Folder/File No. reach each maximum number (999/9999)...**

The number of storable pictures becomes 0, even if the card is not full yet. No more pictures can be taken. Replace the card with a new one.

Note:

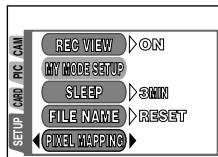
- In the **AUTO**, , , , ,  or  mode, this function's setting is the same as that selected in the other shooting modes.

Pixel Mapping

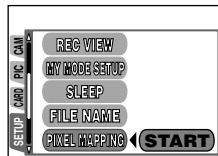
The Pixel Mapping feature allows the camera to check a CCD and image processing circuit automatically. It is not necessary to operate this function frequently. Approximately once a year is recommended. Wait a few minutes after the monitor is used or continuous shots are taken to allow for proper performance of the Pixel Mapping function.



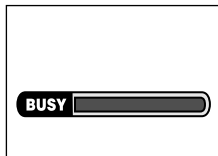
- 1 In the top menu, select **MODE MENU**
→ **SETUP** → **PIXEL MAPPING**.



- 2 Press \triangleright .
 - **START** appears.



- 3 Press OK .
 - A progress bar appears during Pixel Mapping.
 - When Pixel Mapping is finished, the screen returns to normal.



!Note:

- If the power is turned off during Pixel Mapping, start again from Step 1.
- To shoot in the **AUTO** mode or to play back, perform Pixel Mapping in another mode.

Measurement units: m/ft (meters/feet)

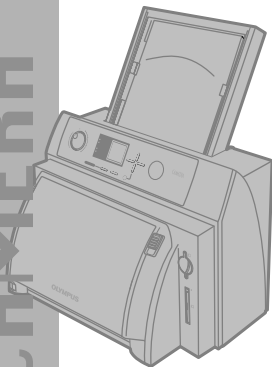
Measurement units can be selected from either meters or feet in the manual focus mode. (P. 73)

At close ranges, the camera replaces meters/feet with centimeters/inches.



In the top menu, select **MODE MENU** → **SETUP** → **m/ft** → **m** or **ft**.

Factory default setting: m



Chapter 9

Print setting

Print reserve prepares pictures you have taken with the camera for printing at a photo lab or on your printer.

When you want to print out pictures that you have taken with this camera and stored on a card, use one of the following options:

■ **Print Reserve (P. 161-166) — for printing at a photo lab that supports DPOF or for printing on a DPOF compatible printer**

Apply Print Reserve (P. 161-166) to your pictures. This allows you to add printing data (number of prints, data printed on pictures, etc.) to the pictures you have stored.

● **What is DPOF?**

DPOF is short for Digital Print Order Format. DPOF is a format used to record automatic print information from cameras. By specifying which images are to be printed, the images can be printed easily by DPOF-compatible printing service labs or a personal DPOF-compatible printer.

■ **Printing on an Olympus CAMEDIA P-400, P-330N(E) or P-200 digital printer**

If you insert a card with Print Reserve data into the printer, printing is possible without using a computer. For more details, refer to the printer's instructions.

■ **Transferring pictures to a computer (P. 175 – 178) and printing them from a printer connected to the computer**

If your computer has software applications installed that support JPEG images (Internet browsers, Paint software, etc.), you can print out your pictures on a printer connected to the computer. CAMEDIA Master software also enables printing.

Also refer to the application software's instructions.

How to print pictures (Cont.)



TIPS



● Picture size and printing

The resolution of a computer/printer is generally based on the number of dots (pixels) per square inch. This is called “dpi” (dots per inch). The higher the dpi value, the higher the resolution, and the better the printed results. Keep in mind, however, that the dpi of the picture you want to print does not change to match the printer resolution. This means that when you print an image with a lower resolution than the printer, the size of the printed picture will be smaller. Although you can print magnified images, picture quality will decrease. If you want to be able to print large, high-quality pictures, set the picture size in the camera as high as possible (higher record mode) (P. 105).

!Note:

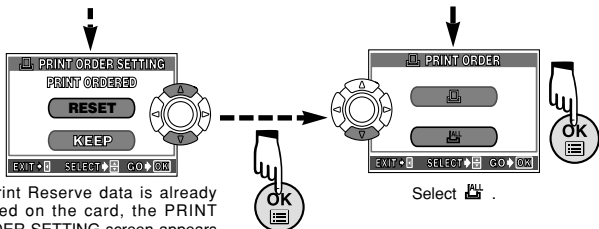
- Images taken with this camera can also be printed using a printer or at a photo lab that supports the Design rule for Camera File system/DCF.
- DPOF reservations set by another device cannot be changed by this camera. Make changes using the original device.
- If a card contains DPOF reservations set by another device, entering reservations using this camera may overwrite the previous reservations.
- Even if an image appears with the message “PICTURE ERROR”, Print reserve may be performed on it. In such a case, the print reserve icon (⏏) does not appear where an image is displayed for full view. Since ⏏ appears where multiple images are displayed (index-display mode), it is possible to confirm the print reserve status.
- This camera cannot be directly connected to printers such as the Olympus P-300 digital printer.
- Not all functions may be available on all printers or at all photo labs.
- If you are printing using the P-330N(E), only the first 999 images can be printed.
- Print reserve may take considerable time in some cases.
- Print reserve cannot be done when using a card with a write-protect seal.

1 Play back a still picture. Press to display the top menu.

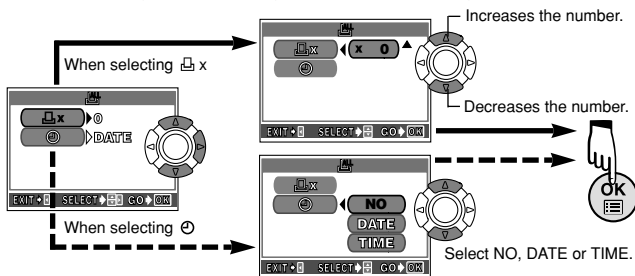
- You cannot enter  (Print reserve) on pictures with .

2 Press to select PRINT ORDER in the top menu.

- The PRINT ORDER screen appears.



3 Press or to select x (number of prints) or (date/time), then press to go to the setting. Perform each setting as illustrated.



4 After all settings are complete, press .



- The top menu appears.

5 Press to exit from the top menu.

- The screen exits from the Print Reserve mode.
- The playback mode is restored and the Print Reserve mark and number of prints are displayed.

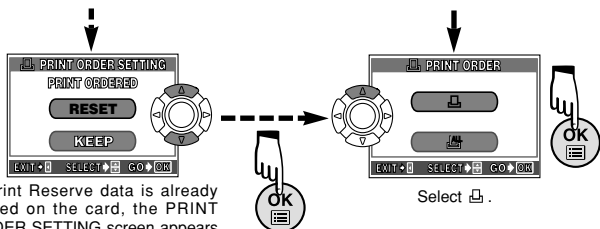
Single-frame print reserve

1 Play back a still picture. Press to display the top menu.

- You cannot enter  (Print reserve) on pictures with .

2 Press to select PRINT ORDER in the top menu.

- The PRINT ORDER screen appears.



If Print Reserve data is already stored on the card, the PRINT ORDER SETTING screen appears giving you the choice of resetting the data or keeping it (P. 167).

Select .

3 Select a frame you want to print using single-frame playback (P. 119) or index display (P. 129). Press .

- The menu appears.



When selecting a frame for Print Reserve

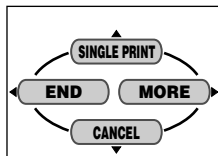
4 Select an appropriate Print reserve setting (see below) using the arrow pad.

MORE: Sets the number of prints, date/time and trim size. → Go to Step 5.

SINGLE PRINT: Sets single-frame print and the date. Trimming setting is not available. → Go to Step 6.


CANCEL: Cancels the Print reserve. → Go to Step 6.

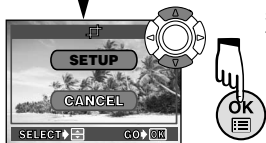
END: Completes the Print reserve. → Go to Step 7.







Trimming setting



It is possible to enlarge a part of a recorded picture and to print out the enlarged section only.

- 1** Do steps 1 – 5 of “Single-frame print reserve”. In step 5, select  (P. 162, 163).



If  is not set on the desired picture, a screen appears giving you the choice of setting trimming (SETUP) or canceling trimming (CANCEL).

If  has been set already, the  screen appears. Select RESET and press .

- If you select OK or CANCEL, then press , the screen returns to the  screen, which is displayed in step 5 on P. 163.

To save the current trimming size → OK

To set a new trimming size → RESET (Go to step 2.)

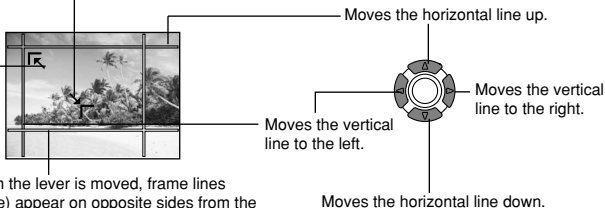
To cancel the trimming size → CANCEL



- 2** The trim screen appears. Set the top left corner point of the desired picture. Move the vertical and horizontal lines using one of the following methods:


When the zoom lever is moved toward W, the intersection point (green) moves toward the top left corner of the display.

When the zoom lever is moved toward T, the intersection point (green) moves toward the bottom right corner of the display.



When the lever is moved, frame lines (white) appear on opposite sides from the trimming lines (green).

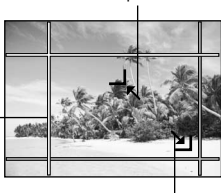
Trimming setting (Cont.)

3 Press  to save the top left corner point.

4 The screen changes to the one for setting the bottom right corner point. The methods for moving the vertical and horizontal lines are the same as described in step 2.

When the zoom lever is moved toward W, the intersection point (green) moves toward the top left corner of the display.

When the lever is moved, frame lines (white) appear on opposite sides from the trimming lines (green).



When the zoom lever is moved toward T, the intersection point (green) moves toward the bottom right corner of the display.

5 Press  to save the bottom right corner point.

- The trimming size is displayed for approx. 1 second.




6 Select OK on the  screen, which is displayed in step 1.

- The screen returns to the  screen.

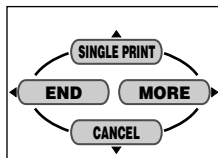


Trimming setting (Cont.)

7 To complete setting, press  twice.

8 Press  to select END.

- The PRINT ORDER screen appears.



9 Press  repeatedly until the PRINT ORDER screen disappears.

- The top menu appears.



10 Press  to exit from the top menu.

Note:

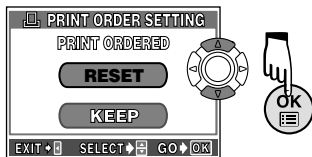
- The size of the printed picture varies depending on the printer setting. If the trimmed picture size is small, printing magnification increases accordingly, resulting in a printed picture with lower resolution.
- For best results with close-up prints, it is recommended to use the TIFF, SHQ or HQ mode.
- The vertical to horizontal ratio in the trimming screen can be changed using the arrow pad, but if the zoom lever is used, the ratio is fixed at 4:3.

Resetting Print Reserve




Allows you to reset all Print Reserve settings for pictures stored on a card.

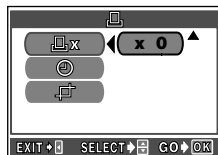
- 1** Play back a still picture. Press  to display the top menu.
- 2** Select **PRINT ORDER** in the top menu to display the **PRINT ORDER SETTING** screen by pressing .
 - If Print Reserve data is NOT stored on the card, the **PRINT ORDER SETTING** screen does not appear.

- 3** Select **RESET**.

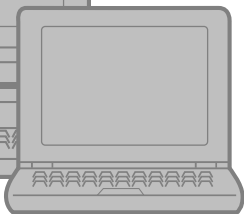


■ Remove selected pictures only

- 1** Select **KEEP**, then set the number of prints to 0 on the  (single-frame print reserve) screen. → See Step 2 - 5 of "Single-frame print reserve" (P. 162, 163)
- 2** Press  to display the menu. Press  to select **END**. Do the following steps.



- 4** Press  to return to the top menu. Press  to exit from the top menu.



Chapter 10

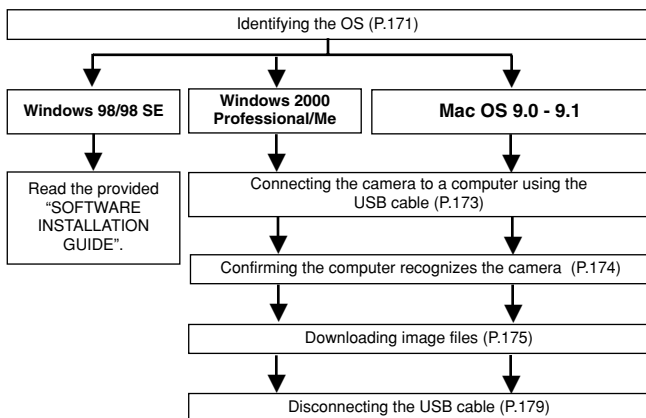
Transferring pictures to a computer

Pictures stored on the card can also be viewed on a computer.

This chapter shows you how to transfer pictures to a computer for viewing and image processing.

Transferring images to a computer

By connecting the camera to a computer with the provided USB cable, images on a card can be transferred to the computer. Some OS's (operating systems) may need a special setup when connecting to the camera for the first time. Follow the chart below.



Even if your computer has a USB connector, data transfer may not function correctly if you are using one of the operating systems listed below or if you have an add-on USB connector (extension card, etc.).

- Windows 95/NT 4.0
- Windows 98 upgrade from Windows 95
- Mac OS 8.6 or lower (except Mac OS 8.6 equipped with USB MASS Storage support 1.3.5 installed at the factory)
- Data transfer is not guaranteed on a homemade PC system.

Transferring images to a computer (Cont.)

Note:

- If the AC adapter is disconnected or connected while the camera is connected to a computer and is used with the battery loaded, image data stored on the card may be destroyed or the computer and/or camera may malfunction. Before disconnecting/connecting the AC adapter, be sure to disconnect the camera from the computer and turn off the camera. If a malfunction occurs, turn off the camera or re-start the computer, etc.
- When connecting the camera to a computer, make sure that there is sufficient remaining battery power. When connected (transmitting) to a computer, the camera does not enter the sleep mode nor will the camera's power turn off automatically. If the battery power runs out or if the camera's internal temperature rises, the camera stops operating. This could cause the computer to malfunction, and any image data (file) being transmitted may be lost. Be careful when downloading files for a long period. Use the AC adapter (optional) when downloading files.
- To avoid computer malfunctions, do not turn off the camera or switch the camera's mode dial position when the camera is connected to a personal computer.
- If the camera is connected to the personal computer via a USB hub, operation may not be stable if there are any compatibility problems between the personal computer and the hub. In such a case, do not use a hub and connect the camera directly to the personal computer.
- To play back movies, the personal computer should have QuickTime installed on it.

Transferring images to a computer (Cont.)

Identifying the OS

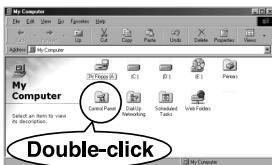
Identify the OS on your computer before connecting the camera. How to identify depends on the computer.

Windows

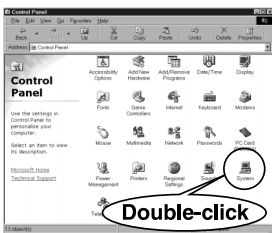
- 1 Double-click the “My Computer” icon on your desktop.



- 2 Double-click the “Control Panel” icon.



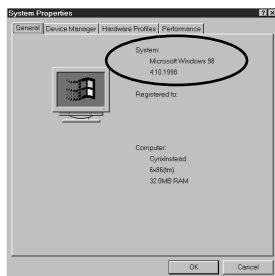
- 3 Double-click the “System” icon.



Transferring images to a computer (Cont.)

4 A System Properties window will pop up. Note and record the “System:” information.

- Close the window. If your OS is Windows98/98 SecondEdition, read the provided “SOFTWARE INSTALLATION GUIDE”.



Macintosh

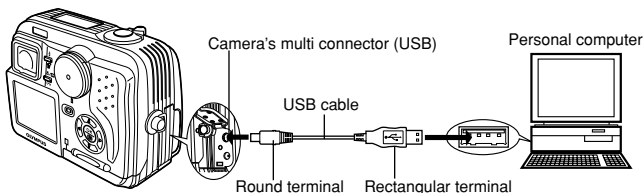
Select “About This Computer” from the Apple menu on the menu bar. A window pops up with the name of the computer’s OS.



Transferring images to a computer (Cont.)

Connecting the camera to a computer

The camera and a computer can be connected with the provided exclusive USB cable.



- 1 Turn off the camera's power, then insert the card containing image files to be transferred to the computer.
- 2 Open the camera's connector cover.
- 3 Connect the square terminal of the USB cable to the USB connector on the computer.
- 4 Connect the round terminal of the USB cable to the USB multi-connector on the camera.
- 5 Turn on the camera. The computer recognizes the camera as a new device.

- **When using Windows 2000 Professional/Me**

The USB driver will be automatically installed. Click "OK" when a message saying that the installation is complete appears. The camera is displayed as "Removable Disk" in either "My Computer" or "Explorer".

- **When using Windows 98/98 SE**

The computer recognizes the camera as a new device, and a window to install the USB driver appears. Press "CANCEL" to close this window. Disconnect the camera from the computer, and install the USB driver as shown in the provided "SOFTWARE INSTALLATION GUIDE". If the USB driver is already installed, this window will not appear.

- **When using Mac OS 9.0–9.1**

The computer recognizes the camera automatically and an "Untitled" icon appears on the desktop.



Transferring images to a computer (Cont.)

Confirming the computer recognizes the camera

When using Windows 2000 Professional/Me

- 1 When the camera is connected to a computer, the computer automatically installs the USB driver. Click “OK” when a message appears saying that the installation is complete.

- The camera is recognized as a “Removable Disk”.

- 2 Double-click the “My Computer” icon on the desktop.



- 3 Make sure the “Removable Disk” icon is in the window.

- There may already be other “Removable Disk” icons for other devices, such as a removable media drive or USB SmartMedia Reader/Writer. In this case, there will be a separate “Removable Disk” icon for the camera.



When using Mac OS 9.0 - 9.1

The computer recognizes the camera automatically and an “Untitled” icon appears on the desktop.



Transferring images to a computer (Cont.)

Downloading image files

If the camera is connected correctly to a personal computer, the card is recognized as a drive (usually “Removable Disk”) on a personal computer. When using a Macintosh, the card is displayed as a new drive (Untitled) on the desktop.

Images stored on the card can be treated the same way as files on a floppy-disk or removable media drive using software such as Windows Explorer.



TIPS

You can view images using: graphics applications that support JPEG (Paint Shop Pro, Photoshop, etc.); Internet browsers (Netscape Communicator, Microsoft Internet Explorer, etc.); CAMEDIA Master software; or other software. For details on using commercial graphics applications, refer to their instruction manuals. When using graphics applications, make sure that the images are completely transferred to the computer. The images (files) may be damaged if they are processed (e.g. rotated, etc.) by some graphics applications while still in the card.

Note on using CAMEDIA Master 2.5 software

- When using CAMEDIA Master 2.5, click on “Removable Disk”, not “My Camera”. Under Mac OS, the disk drive will be labeled “Untitled”.
- To use CAMEDIA Master software, read its instructions.

Windows

1 Connect the camera to the computer. (See page 173.)

- The camera is recognized as a “Removable Disk”.

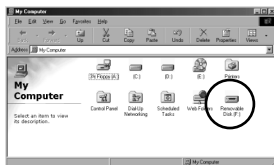
2 Double-click the “My Computer” icon on your desktop.



Transferring images to a computer (Cont.)

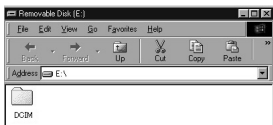
3 Double-click the “Removable Disk” icon.

- If you cannot find this icon, the camera and computer are not connected properly. Go back to page 173 and connect again.



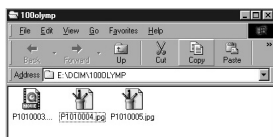
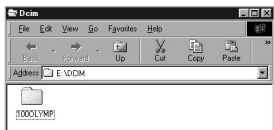
4 Double-click the “DCIM” folder.

- The card in the camera is recognized as a folder.



5 Double-click the “100OLYMP” folder.

- Image files are displayed.



6 To copy (download) the image files to the desktop or another folder, drag & drop them.

- When moving or copying a file, be sure to follow any instructions provided by your computer.
- To play back movies, the personal computer should have QuickTime installed on it.
- Install QuickTime from the provided software CD.



Transferring images to a computer (Cont.)

Macintosh

1 Connect the camera to the computer. (See page 173.)

- The camera is recognized as “Untitled”.



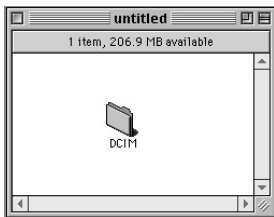
2 Double-click the “Untitled” icon.

- If you cannot find this icon, the camera and computer are not connected properly. Go back to page 173 and connect again.

Note: The Apple “File Exchange (PC Exchange)” software must be installed in Extensions Manager for a drive icon to be mounted on the desktop. Please consult Apple Computer Inc. for instructions.

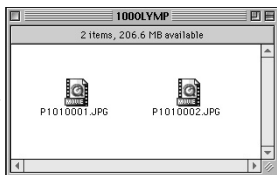
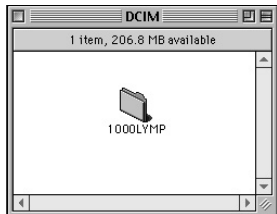
3 Double-click the “DCIM” folder.

- The card in the camera is recognized as a folder.



4 Double-click the “100OLYMP” folder.

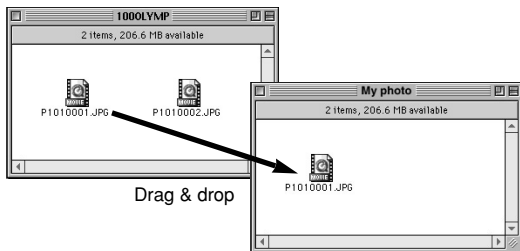
- Image files are displayed.



Transferring images to a computer (Cont.)

5 To copy (download) the image files to the desktop or another folder, drag & drop them.

- When moving or copying a file, be sure to follow any instructions provided by your computer.



Note:

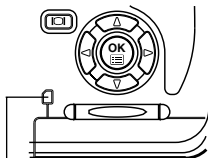
- Always disconnect the camera from the personal computer when doing any of the following:
 - Changing the card.
 - Switching the mode dial position.
 - Turning off the camera.

Disconnecting the USB cable

To avoid computer malfunctions, always do the following when removing the USB cable. If a malfunction occurs, disconnect the USB cable and re-connect it and/or re-start your personal computer.

Windows 98/98 SE

- 1** Make sure the camera's card access lamp is off.
- 2** Select the "Removable Disk" icon on "My Computer" and right-click to display the menu.
- 3** Select "Eject" and left-click.
- 4** Make sure the camera's access lamp is off, then remove the USB cable.

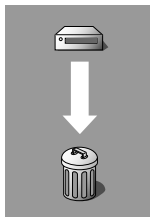


Card access lamp



Macintosh

- 1** Make sure the camera's card access lamp is off.
- 2** Drag & drop the "Untitled" icon onto the "Trash" icon on your desktop, or select "Eject" from the "Special" menu.
- 3** Make sure the camera's access lamp is off, then remove the USB cable.



Disconnecting the USB cable (Cont.)

Windows 2000/Me

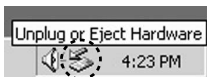
Do either of the following to remove the USB cable:

(A) Click on the task bar.

- 1 Left-click on the “Unplug or Eject Hardware” icon (circled in the illustration below) on the task bar (at the lower right-hand side of your computer screen).
- 2 When a message appears saying that the drive has been stopped, left-click on the message.
- 3 When a message appears saying that the hardware can be ejected safely, click on the “OK” button.
- 4 Remove the USB cable.

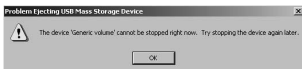
(B) Double-click on the task bar.

- 1 Double-click on the “Unplug or Eject Hardware” icon (circled in the illustration below) on the task bar (displayed at the bottom right on a personal computer).
- 2 When the display for ejecting the hardware appears, select the camera from the hardware device list, then click on the “Stop” button.
- 3 When a message appears saying that the hardware can be ejected safely, click on the “OK” button.
- 4 Remove the USB cable.



Note:

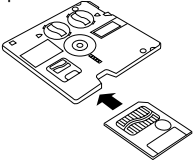
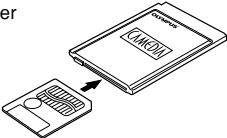
- If the window returns the following message when attempting to disconnect the camera, close all applications and try again.

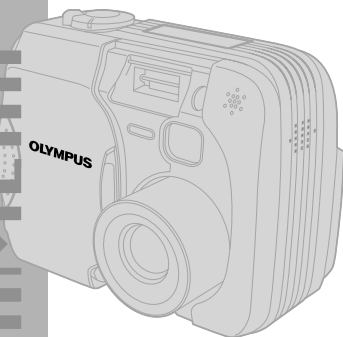


Downloading directly from a card

Card adapters enable you to save images on your personal computer without having to connect your camera directly to your computer.

For the latest information on available adapters, consult our Customer Support Center.

| Computer operating environment | Required devices |
|---|--|
| Personal computer equipped with a 3.5" floppy disk-drive | Floppy disk adapter  |
| Personal computer equipped with a PC card slot (PCMCIA) or an external PC card reader/writer | PC card adapter  |
| Personal computer equipped with a USB port | Olympus-brand removable media reader/writer |
| Note: <ul style="list-style-type: none">● Check for compatibility. Depending on the computer operating environment and/or the card memory capacity, the above devices may not function properly.● For details on operating the above devices, read the instructions provided with the device. | |



Chapter 11

Using optional accessories

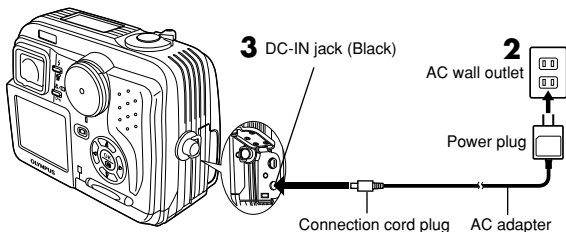
AC adapter

An optional Olympus CAMEDIA-brand AC adapter allows you to power your digital camera from a common AC wall outlet. Be sure to use the specified AC adapter.

Use an AC adapter designed to operate on the AC voltage in the area the camera is being used.

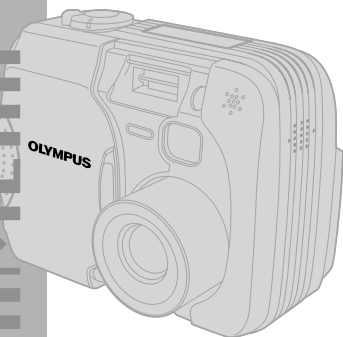
Consult your nearest Olympus dealer or Service center for details.

- 1 Turn off the camera.**
- 2 Plug the AC adapter into a power outlet.**
- 3 Open the jack cover and plug the connection cord into the DC-IN jack.**
- 4 To disconnect, turn off the camera, and unplug the AC adapter first from the camera then from the outlet.**



Note:


- If you shoot using the monitor for a long time, noise may appear on pictures.
- Read carefully the "GENERAL PRECAUTIONS" included in the package and the AC adapter's instructions.
- Never connect or disconnect the AC adapter when the card access lamp is blinking.
- Even when a battery is loaded, power is supplied via the AC adapter. The battery loaded in the camera is not charged.
- Do not disconnect/connect the AC adapter while using the camera with the battery loaded. First turn off the camera, then disconnect/connect the AC adapter. Otherwise, image data stored on the card may be destroyed or a malfunction may occur. If a malfunction occurs, turn off the camera and turn it on again.



Chapter 12






Miscellaneous

This chapter includes helpful information about troubleshooting camera operations, error codes, etc.

| POSSIBLE CAUSES | CORRECTIVE ACTION | REF. PAGE |
|---|--|-----------|
| The camera does not turn on or function buttons do not respond. | | |
| ① The power is off. | ① Open the lens barrier to turn on the camera. | P. 30 |
| ② The batteries are loaded incorrectly. | ② Reload the batteries correctly. | P. 25 |
| ③ The batteries are exhausted. | ③ Replace the batteries with new ones. | P. 25 |
| ④ The batteries are temporarily unable to function. | ④ The batteries may be too cold. Keep them warm while using the camera. | |
| ⑤ It is connected to a personal computer. | ⑤ The camera will not operate while it is connected to a personal computer. | P. 170 |
| ⑥ The camera is in the sleep mode. | ⑥ Operate the camera (press the shutter button, turn the mode dial, etc.) | P. 30 |
| ⑦ The camera is too hot and has turned off automatically. | ⑦ Wait until the camera cools down before using it again. | |
| No picture is taken when the shutter button is pressed. | | |
| ① The lens barrier is closed. | ① Open the lens barrier. | P. 30 |
| ② The memory gauge is full. | ② Wait until there is room in the memory gauge. | P. 79, 81 |
| ③ The flash has not finished charging. | ③ Release your finger from the shutter button. When the orange lamp stops blinking, shoot again. | P. 88 |
| ④ The card access lamp blinks after shooting in the  mode. | ④ The recorded movie image data is being written to the card. You can start shooting again when the card access lamp stops blinking. | P. 81 |

Troubleshooting (Cont.)

| POSSIBLE CAUSES | CORRECTIVE ACTION | REF. PAGE |
|--|---|-----------------|
| No picture is taken when the shutter button is pressed. | | |
| ⑤ There is a problem with the card. | ⑤ See the error code chart. | P. 193 |
| ⑥ The card is full. | ⑥ Replace the card or delete unwanted pictures, etc. | P. 29, 134, 135 |
| ⑦ The batteries ran out of power. | ⑦ Replace the batteries with new ones. | P. 25 |
| ⑧ The control panel/monitor indications disappear, or only the battery check blinks. | ⑧ Replace the batteries with new ones. (Do not open the battery compartment cover when the card access lamp is blinking.) | P. 25 |
| ⑨ A write-protect adhesive seal is placed on the card or there is no card in the camera. | ⑨ Insert a new card in the camera. | P. 29 |
| The date recorded with the image data is wrong. | | |
| ① The date is not set. | ① Set the date. The clock adjustment is not factory-preset. | P. 33 |
| ② The camera has been left for approx. 1 hour with the batteries removed and the date setting is canceled. | ② Set the date again. | P. 33 |


| POSSIBLE CAUSES | CORRECTIVE ACTION | REF. PAGE |
|--|--|----------------|
| The flash does not fire. | | |
| ① The flash is set to the off mode. | ① Press the  button to select a flash mode other than  . | P. 87 |
| ② The subject is lighted. | ② Set the flash to Fill-In mode. | P. 84 |
| ③ Sequential shooting is on. | ③ Set DRIVE to  in the menus. | P. 96 |
| ④ You are recording movies. | ④ Set the mode dial to any position other than  . | P. 61 |
| ⑤ Panorama shooting is performed. | ⑤ Set PANORAMA to OFF in the menus. | P. 101 |
| ⑥ FUNCTION is set to BLACK/WHITE BOARD. | ⑥ Set FUNCTION to OFF in the menus. | P. 103 |
| Pictures you have already taken do not appear on the monitor. | | |
| ① The camera is in the shooting mode. | ① Close the lens barrier and press the  button. | P. 119 |
| ② There is no picture in the card. | ② NO PICTURE appears on the monitor. Record pictures. | P. 38, 39, 194 |
| ③ There is a problem with the card. | ③ See the error code chart. | P. 194 |
| ④ The camera is connected to a TV. | ④ The monitor does not function when the camera is connected to a TV. | P. 137 |
| The monitor is not clear. | | |
| ① The brightness is not adjusted properly. | ① Adjust the brightness. | P. 79 |
| ② The monitor is exposed to direct sunlight. | ② Block the sunlight. | |

Troubleshooting (Cont.)

| POSSIBLE CAUSES | CORRECTIVE ACTION | REF. PAGE |
|---|---|------------|
| Picture rotate, Picture protect, Single-frame erase, All-frame erase, Print reserve and Card formatting cannot be performed. | | |
| ① A write-protect adhesive seal is affixed to the card. | ❶ Use the card after peeling off the seal. Do not reuse the write protect seal. | P. 28 |
| When the camera is connected to a computer, an error message appears while data is being transferred to the computer. | | |
| ① The cable is not plugged in correctly. | ❶ Connect the cable correctly. | P. 173 |
| ② The batteries are exhausted. | ❷ Replace the batteries with new ones or use the optional AC adapter. | P. 25, 183 |
| ③ The USB driver is not installed properly. | ❸ For Windows 98/98 SE users: Install the USB driver again following the provided "SOFTWARE INSTALLATION GUIDE". | |
| The subject's eyes appear red in pictures recorded with the flash. | | |
| ① The flash is in the auto-flash mode. | ❶ This "red-eye phenomenon" occurs with all cameras when a flash is used. It is caused by light from the flash reflecting off the retina at the back of the eye. Red-eye varies depending on the individual and the shooting conditions such as ambient lighting. Use of the Red-Eye Reducing Pre-Flash mode significantly reduces this phenomenon. | P. 84 |

| POSSIBLE CAUSES | CORRECTIVE ACTION | REF. PAGE |
|--|--|-----------|
| The picture is out of focus. | | |
| ① The camera moved when the shutter button was pressed. | ❶ Hold the camera correctly, and press the shutter button. | P. 36, 68 |
| ② The AF target mark was not on the subject. | ❷ Position the AF target mark on the subject, or use the focus lock. | P. 68, 71 |
| ③ The lens is dirty. | ❸ Clean the lens with a soft dry cloth. | P. 192 |
| ④ The shutter button was pressed while standing in front of the camera in the self-timer mode. | ❹ Press the shutter button while looking into the viewfinder, not while standing in front of the camera. | P. 93 |
| ⑤ The manual focus was used with the wrong focal range. | ❺ Use the right manual focus for the distance. | P. 73 |
| The picture is too bright. | | |
| ① The flash mode was set to the Fill-in flash mode. | ❶ Select a flash mode other than the Fill-in flash mode. | P. 87 |
| ② The subject was excessively illuminated. | ❷ Adjust the exposure compensation or change the camera position toward the subject. | P. 111 |

Troubleshooting (Cont.)

| POSSIBLE CAUSES | CORRECTIVE ACTION | REF. PAGE |
|---|---|-----------|
| The picture is too dark. | | |
| ① The flash was blocked by a finger. | ❶ Hold the camera correctly, keeping your fingers away from the flash. | P. 36 |
| ② The subject was out of the working range of the flash. | ❷ Shoot within the flash working range. | P. 87 |
| ③ The flash mode was set to the Off mode. | ❸ Press the  button to select a flash mode other than Off. | P. 87 |
| ④ The subject was too small and was backlit. | ❹ Set the flash to Fill-In mode. Or, use the spot metering mode. | P. 87, 91 |
| ⑤ The sequential mode was used. | ❺ Higher shutter speeds are used when the sequential mode is selected which may result in pictures that are darker than usual. | P. 96 |
| The colors of pictures taken indoors look unnatural. | | |
| ① Indoor lighting can affect the picture's colors. | ❶ Set the white balance according to the lighting. | P. 112 |
| ② There is no white in the subject. | ❷ Try to include something white in the picture or shoot using the Fill-in flash mode. | P. 87 |
| ③ The white balance setting is wrong. | ❸ Adjust the white balance to the light source. | P. 112 |
| The picture has obscured edge(s). | | |
| ① The lens was partly blocked by a finger or the strap. | ❶ Hold the camera correctly, keeping your fingers and the strap away from the lens. | P. 36 |

| POSSIBLE CAUSES | CORRECTIVE ACTION | REF. PAGE |
|---|--|-----------|
| Halation produces unnatural colors in a picture. | | |
| ① Excessively bright ultraviolet light on the subject, such as sunlight shining through the leaves of trees, window frames in bright light at night, reflection of metals under direct sunlight, etc. | ① Process the pictures using a graphics application that supports JPEG (Paint Shop Pro, Photoshop, etc.). For example, after picking up unnatural colors with a syringe tool, etc., you can select color areas, and try color conversion or saturation adjustment. For details, refer to the manual of the graphics application you are using. | |

User maintenance

After use

When not using the camera, be sure to close the lens barrier to turn off the camera. Also turn off the monitor.

Cleaning the camera

1 Turn off the camera. (P. 30)

2 Remove the batteries (P. 25). When using the AC adapter, unplug the AC adapter from the camera and the AC outlet.

3 Exterior

Wipe gently with a soft cloth. To wipe off heavy dirt, soak the cloth in diluted mild soap and wring it well. Wipe off the camera with the damp cloth and then dry it with a dry cloth. If you have used your camera at the beach, use a cloth dampened with fresh water.

Monitor and viewfinder

Wipe gently with a soft cloth.

Lens

Blow dust off the lens with a blower brush (commercially available), then wipe gently with lens cleaning paper.

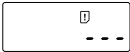



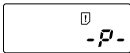

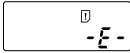

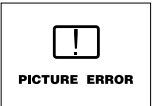
Card

Wipe gently with a soft cloth.

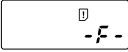
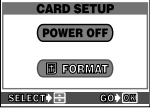

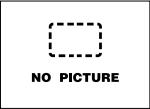

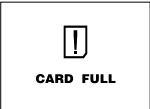


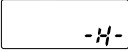
Note:

- Do not use a strong solvent such as benzine or alcohol, or chemically treated cloth.
- Cleaning should be done only after the battery pack has been removed or other power supply units have been disconnected.
- Mold may form on the lens surface if the lens is left dirty.

If there is a problem with your camera, a blinking error code will appear.

| Control panel | Monitor | Possible causes | Corrective action |
|---|---|--|--|
|  |  | The card is not inserted, or it cannot be recognized. | Insert the card correctly. Insert a different card. |
|  |  | No more pictures can be taken. | Replace the card or erase unneeded pictures. |
|  |  | Writing to the card is prohibited. | If you are taking pictures, remove the write-protect adhesive seal. |
|  |  | Cannot record, play back or erase pictures in this card. | If the card is dirty, wipe the gold contacts with a clean tissue and insert it again. If the problem is still not corrected, this card cannot be used. |
| Empty screen |  | The recorded image cannot be played back with this camera. | Download the image to a personal computer and use image processing software to view it. If that cannot be done, the image file is partially damaged. |

Error codes (Cont.)

| Control panel | Monitor | Possible causes | Corrective action |
|---|--|--|--|
|  |  | The card is not formatted. | Format the card. |
|  |  | There are no pictures in the card, so there is nothing to play back. | Insert a card which contains images. |
|  |  | There is no empty space in the card, so it cannot record new information such as print data and sound. | Replace the card or erase unneeded pictures. |
|  |  | The card cover is open. | Close the card cover. |
|  | Empty screen | The temperature inside the camera is too high. | Remove the battery and wait until the camera cools down. |
| Other indications | Consult your nearest Olympus dealer or customer support department (see back cover). | | |

| | |
|--|--|
| Product type | Digital camera (for shooting and displaying) |
| Recording System | Digital recording, JPEG (in accordance with Design rule for Camera File system (DCF)), TIFF (non-compression), Digital Print Order Format (DPOF) Wave format QuickTime Motion JPEG support |
| Still | |
| Sound with still images | |
| Movie | |
| Memory | 3V (3.3V) SmartMedia, 4 MB - 128 MB (all cards except 2 MB) |
| No. of storable pictures (When a 16 MB card is used) | Record without sound 1 frame (TIFF: 2272x1704) Approx. 5 frames (SHQ: 2288x1712) Approx. 16 frames (HQ: 2272x1704) Approx. 49 frames (SQ1: 1280x960 NORMAL) Approx. 165 frames (SQ2: 640x480 NORMAL) |
| No. of effective pixels | 3,950,000 pixels |
| Image pickup device | 1/1.8" CCD solid-state image pickup 4,130,000 (gross) |
| Recording image resolutions | 2272 x 1704 pixels (TIFF/HQ) 2288 x 1712 pixels (SHQ) 2048 x 1536 pixels (TIFF/SQ1) 1600 x 1200 pixels (TIFF/SQ1) 1280 x 960 pixels (TIFF/SQ1) 1024 x 768 pixels (TIFF/SQ2) 640 x 480 pixels (TIFF/SQ2) 3200 x 2400 pixels (SHQ/HQ) 2816 x 2112 pixels (SHQ/HQ) 2560 x 1920 pixels (SHQ/HQ) |
| Lens | Olympus lens 7.25 mm to 20.3 mm, f2.8 to f4.8, 7 elements in 5 groups (equivalent to 35 mm to 98 mm lens on 35 mm camera), aspherical glass |
| Photometric system | Digital ESP metering, Spot metering system |
| Aperture | W : f2.8, f3.4, f4.0, f4.8, f5.6, f8.0 T : f4.8, f5.6, f8.0 |

Specifications (Cont.)

| | |
|--|--|
| Shutter speed | Used with mechanical shutter |
| Still | 1/2 to 1/1000 sec. (M mode: 16 to 1/1000 sec.; when slow synchronization is used: 4 to 1/1000 sec.) |
| Movie | 1/30 to 1/10000 sec. |
| Viewfinder | Optical real image viewfinder |
| Monitor | 1.5" TFT color LCD display, approx. 114,000 pixels |
| Battery charging time for flash | Approx. 6 sec. (at normal temperature with new batteries) |
| Autofocus | TTL system autofocus, Contrast detection system, Focusing range: 0.1 m to ∞ (0.3 ft to ∞) |
| Outer connector | DC-IN jack, Multi connector (USB 1.0 compatible, A/V OUT) |
| Automatic calendar system | Up to 2031 |
| Operating environment | |
| Temperature | 0°C to 40°C (32°F to 104°F) (operation) -20°C to 60°C (-4°F to 140°F) (storage) |
| Humidity | 30% to 90% (operation) 10% to 90% (storage) |
| Power supply | For batteries, use a CR-V3 lithium battery pack, or 2 AA (R6) NiMH batteries, NiCd batteries, Alkaline batteries or lithium batteries. AC adapter (optional) Manganese (zinc-carbon) batteries cannot be used. |
| Dimensions | |
| (W) X (H) X (D) | 87 mm x 68.5 mm x 43.5 mm (3.4" x 2.6" x 1.7") |
| Weight | 190 g (0.4 lb) (without batteries/card) |

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT ANY NOTICE OR OBLIGATION ON THE PART OF THE MANUFACTURER.

Glossary of terms

A (Aperture Priority) Mode

You set the aperture yourself and the camera automatically varies the shutter speed so that the picture is taken with the best exposure.

AE (Automatic Exposure)

The camera's built-in exposure meter automatically sets the exposure. The 3 AE modes available on this camera are P mode, in which the camera selects both the aperture and shutter speed, A mode, in which the user selects the aperture and the camera sets the shutter speed, and S mode, in which the user selects the shutter speed and the camera sets the aperture. In M mode, the user selects both the aperture and the shutter speed.

Aperture

The adjustable lens opening which controls the amount of light that enters the camera. The larger the aperture, the shorter the depth of field and the fuzzier the background. The smaller the aperture, the greater the depth of field and the sharper the background. Aperture is measured in f/stops. Larger aperture values indicate smaller apertures, and smaller aperture values indicate larger apertures.

Backlight

A light source to illuminate the monitor from behind the screen.

CCD (Charge-coupled Device)

This converts light passing through the lens into electrical signals. On this camera, light is picked up at 4,13 million points and converted into RGB signals to build a single image.

Contrast Detection Method

This is used to measure the distance to the subject. The camera determines if the image is focused by the level of contrast in the subject.

Conventional Photography

This refers to recording images using silver halide (the method for recording images in conventional, non-digital photography.) This system is in contrast to still video and digital photography.

DCF (Design rule for Camera File system)

A standard for image files by the Japan Electronics and Information Technology Industries Association (JEITA).

Digital ESP (Electro-Selective Pattern) light metering

This determines the exposure by metering and calculating the light levels in the center and other areas of the image separately.

Glossary of terms (Cont.)

DPOF (Digital Print Order Format)

This is for saving desired print settings on digital cameras. By entering which images to print and the number of copies of each, the user can automatically have the desired images printed by a printer or print lab that supports the DPOF format.

Eclipsing (Vignetting)

This refers to when an object obscures part of the field of view so that the whole subject is not photographed. Vignetting also refers to when the image seen through the viewfinder does not exactly match the image shot through the objective lens, so the photographed image includes objects not seen through the viewfinder. In addition, vignetting can occur when an incorrect lens hood is used, causing shadowing to appear in the corners of the image.

Effective Pixel Resolution

The number of pixels used in the CCD to create the image.

EV (Exposure Value)

A system for measuring exposure. EV0 is when the aperture is at F1 and the shutter speed is 1 second. The EV then increases by 1 each time the aperture increases by one F stop or the shutter speed increases by one increment. EV can also be used to indicate brightness and ISO settings.

Exposure

The amount of light used to capture an image. The exposure is determined by the time the shutter is open (shutter speed) and the amount of light that passes through the lens (aperture).

Gross Pixel Resolution

The total number of pixels in a CCD. Not all pixels are used to create the image.

ISO

A method for indicating film speed by the International Organization for Standardization (ISO) (e.g. "ISO100"). Higher ISO values indicate greater sensitivity to light, so images can be exposed even in low-light conditions.

JPEG (Joint Photographic Experts Group)

A compression format for color still images. Photographs (images) shot using this camera are recorded onto the SmartMedia card in JPEG format when the Record mode is set to SHQ, HQ or SQ. By downloading these images to a personal computer, users can edit them using graphics application software or view the images using an Internet web browser.

M (Manual) Mode

The user sets both the aperture and shutter speed.

P (Program) Mode

Also called Program AE mode. The camera automatically sets the best shutter speed and aperture for the shot.

PAL (Phase Alternating Line)

In Europe, PAL television signals are normally used. North America and Japan use NTSC signals.

Pixels

A pixel is the smallest unit (dot) used to make up an image. Clear large-sized printed images require millions of pixels.

S (Shutter Priority) Mode

Also called Shutter Priority AE mode. The user selects the shutter speed and the camera automatically varies the aperture so that the picture is taken with the best exposure.

TFT (Thin-Film Transistor) Color Monitor

A color Monitor constructed using thin-film technology.

TIFF (Tagged Image File Format)

An uncompressed format used for saving highly-detailed black & white or color image data. TIFF image files can be handled by software programs for scanners and graphics applications.

TTL (Through-The-Lens) System

To help adjust exposure, a light receptor built into the camera directly measures the light passing through the lens.

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